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October 14, 2005

Mr. Michele Rochette
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

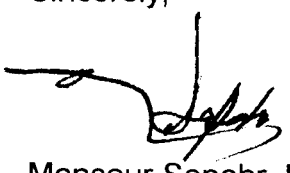
Subject: **File No. 07-0733 (JGU)** - 2185 Solano Way, Concord, California

Dear Mr. Rochette:

Enclosed for your review is SOMA's "Third Quarter 2005 Groundwater Monitoring, On-Site Free Product Removal and Groundwater Remediation Report" for the subject property.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have any questions or comments.

Sincerely,



Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

Enclosure

cc : Mr. Marcus Shimoff
c/o Mr. Bert Horn w/enclosure

Ms. Sue Loyd w/enclosure
CCCHSD
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THIRD QUARTER 2005
Groundwater Monitoring,
On-site Free Product Removal, and
Groundwater Remediation Report

2185 Solano Way

Concord, California

October 14, 2005

Project 2461

Prepared for

Mr. Marcus Shimoff

Shimoff and Lager

c/o Mr. Bert Horn

405 Primrose Road, Suite 300

Burlingame, California

Prepared by

SOMA Environmental Engineering, Inc.

6620 Owens Drive, Suite A

Pleasanton, California

Certification

This report has been prepared by SOMA Environmental Engineering, Inc., on behalf of Mr. Marcus Shimoff, (c/o Mr. Bert Horn-Trustee) the property owner of 2185 Solano Way, Concord, California, to comply with the California Regional Water Quality Control Board's requirements for the Third Quarter 2005 groundwater monitoring event.

Mansour Sepehr, Ph.D., P.E.
Principal Hydrogeologist

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1.0 Introduction

This report has been prepared by SOMA Environmental Engineering, Inc. (SOMA), on behalf of Mr. Marcus Shimoff, (c/o Mr. Bert Horn-Trustee) the property owner of 2185 Solano Way Concord, California ("the Site"), as illustrated in Figure 1.

Appendix A details the groundwater monitoring procedures used during the Third Quarter 2005 monitoring event.

1.1 Previous Activities

In December of 1998, four gasoline underground storage tanks (USTs) were removed from the Site: one 10,000-gallon, one 8,000-gallon, one 5,000-gallon, and one 4,000-gallon tank. Soil samples collected from beneath the USTs and sidewalls of the excavated areas contained elevated levels of petroleum hydrocarbons. In October 1999, RRM, Inc. (RRM) completed soil over-excavation and disposal activities at the Site. Approximately 7 cubic yards of petroleum hydrocarbon impacted soil were excavated from the former southeastern fuel island area at this time. Figure 2 displays the locations of the former USTs and fuel islands.

On March 14, 2000, RRM installed three on-site shallow groundwater monitoring wells (MW-1, MW-2, and MW-3). Also, in March 2000, groundwater elevation data was measured and groundwater samples were collected. The locations of these monitoring wells are shown in Figure 2. The historical groundwater elevation data and analytical results are shown in Table 1.

On September 22, 2000, SOMA drilled six soil borings (B-1 to B-6) and collected soil and grab groundwater samples beneath the Site and neighboring properties. On October 10 and 11, 2000, SOMA drilled 3 additional soil borings off-site. The soil borings were converted into monitoring wells (MW-4, MW-5, and MW-6). During the well installation, Methyl tertiary Butyl Ether (MtBE) was detected in all of the groundwater samples collected from wells MW-4 to MW-6. This indicated that off-site regions beyond the southern and western borders of the Site have been impacted.

In March 2001, SOMA submitted a workplan to the RWQCB to conduct additional site investigations and perform risk-based corrective action (RBCA) in order to evaluate whether or not soil and groundwater remediation was warranted. In May 2001, eight hydropunches (HP-1 to HP-8) were drilled and soil and groundwater samples were collected from beneath the Site and neighboring properties. The results of this investigation revealed the presence of elevated levels of petroleum hydrocarbons and MtBE in the groundwater. The locations of the hydropunches are displayed in Figure 2.

In June 2001, SOMA completed a RBCA analysis for the Site, which indicated that the Site is a “High Risk” petroleum release site, in which the groundwater has been heavily impacted. A sensitive receptor survey within 500 feet of the Site and further site characterizations were also conducted. SOMA set up a groundwater flow and chemical transport model to design a groundwater extraction system for the Site. SOMA further proposed the installation of an off-site groundwater extraction well at 2837 Eastgate Avenue. In July 2001, SOMA prepared and submitted a Corrective Action Plan (CAP) to the RWQCB.

In January 2002, two CPT holes were logged (one on-site and one off-site to the southwest), four grab groundwater samples were collected at each of the two CPT locations, and two piezometers were installed on-site. PZS-1 was screened in the first water-bearing zone, and PZS-2 was screened in the second water-bearing zone. This investigation was used to evaluate the vertical extent of the on- and off-site chemical plume in the subsurface and to determine the hydrogeologic conditions beneath the on- and off-site areas. A confirmation boring was drilled adjacent to the CPT-1 location, to collect soil samples from selected depths for comparison with the CPT lithologic logging. The locations of the CPTs and piezometers are displayed in Figure 2.

In December 2002, SOMA oversaw the installation of a French drain and extraction well (EX-1); their locations are illustrated in Figure 2. On April 16, 2003, SOMA oversaw the replacement of monitoring well MW-2 with new well MW-2R. Monitoring well MW-2 was replaced due to damages incurred on the well during the installation of the French drain.

A 2-inch passive skimmer (model number TR-252) was installed in monitoring well MW-2 on May 23, 2002, to remove free product from this well. The skimmer was removed from well MW-2 during the French drain installation and later installed in well MW-3. Free product was actively removed from well MW-3 from July 2003 to June 2004. The skimmer was re-installed in well MW-2R, and has actively removed free product at this vicinity since June 2004. Currently, the groundwater remediation system is removing site related contaminants as planned.

2.0 Results

The following sections provide the results of the field measurements and laboratory analyses from the September 15, 2005 groundwater monitoring event.

2.1 Field Measurements

As shown in Table 1, the depth to groundwater in the monitoring wells ranged from 10.65 feet in well MW-6 to 18.78 feet in well MW-2R. The corresponding groundwater elevations ranged from 22.07 feet in well MW-2R to 29.91 feet in

well MW-1. The groundwater elevations and depth to groundwater for the extraction well and French drain risers are also shown in Table 1.

The lowest groundwater elevation detected during this monitoring event was 22.07 feet in well MW-2R. The low groundwater elevation can be attributed to the close proximity of this well to the French drain. The top of casing elevations were based on survey data measured on July 8, 2003. Appendix B includes the survey data.

The groundwater elevations since the previous monitoring event (Second Quarter 2005) decreased in all of the monitoring wells, especially in well MW-2R. Local recharge rates in each well, as well as seasonal fluctuations, contribute to the various groundwater elevations observed throughout the Site. The remedial system has also created an effective capture zone, especially around the French drain.

The groundwater elevation contour map is displayed in Figure 3. As Figure 3 illustrates, the groundwater extraction system, which includes a French drain and extraction well EX-1, is creating excellent groundwater capture zones. The on-site groundwater gradient, which is in the direction of the French drain, is approximately 0.036 feet/feet. The off-site groundwater gradient, which is in the direction of extraction well EX-1, is approximately 0.086 feet/feet. The on and off-site groundwater gradients decreased since the previous monitoring event. During the drier times of the year the water table descends.

The field notes in Appendix B show the detailed measurements of the biodegradation parameters of the groundwater for each well and the center French drain riser. Due to the minimal water available in well MW-2R no field measurements, other than the depth to groundwater within this well, could be recorded. This well is in close proximity to the French drain.

The objective of the natural attenuation study was to evaluate whether the petroleum hydrocarbons found in the groundwater were biodegrading. Therefore, groundwater samples collected during this monitoring event were analyzed for common electron acceptors and other geochemical indicators.

Naturally occurring biological processes can enhance the removal rate of contaminants in the subsurface. During the degradation process, indigenous bacteria that exist in the subsurface utilize the energy released from the transfer of electrons to drive the redox reactions that remove organic mass from contaminated groundwater. The more positive the redox potential of an electron acceptor, the more energetically favorable is the reaction utilizing that electron acceptor. Based on thermodynamic considerations, the most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO), followed by nitrate, manganese, ferric iron, sulfate, and carbon dioxide, in descending order of preference. Evaluating the distribution of these electron

acceptors can provide evidence of where and to what extent hydrocarbon biodegradation is occurring.

In general, all of the DO concentrations were below the solubility standard of O_2 in the groundwater. The groundwater temperatures, ranged from 20.07^{o}C in well MW-1 to 24.04^{o}C in well MW-4. The solubility standard for DO in groundwater at 24^{o}C, at an atmospheric pressure of 760 mm/Hg, is approximately 8.4 mg/L. DO ranged from 1.36 mg/L in well MW-1 to 3.08 mg/L in well MW-6.

ORP showed negative redox potentials in wells MW-1 and MW-3 to MW-5. Oxidation of petroleum hydrocarbons could have occurred in these monitoring wells at these low DO readings. Negative redox potentials indicate that contaminants in the groundwater are conducive to anaerobic biodegradation.

The presence of Fe^{2+} indicates that the available DO in the subsurface has been consumed and anaerobic bacteria began to utilize other electron acceptors, such as Fe^{3+}, NO_3^- and SO_4^{2-}, to metabolize the dissolved hydrocarbons. Ferrous iron concentrations can thus be used as an indicator of anaerobic biodegradation. Ferrous iron is a product of the reduction reaction of ferric iron and hydrocarbons.

Ferrous iron concentrations were detected throughout the Site, with the exception of well MW-1. Detectable ferrous iron concentrations ranged from 0.32 mg/L in well EX-1 to the maximum allowable equipment tolerance level of 3.30 mg/L in the center French drain riser.

Nitrate was below the allowable equipment tolerance level in all wells and the center French drain riser, with the exception of well MW-1. Nitrate was detected in well MW-1 at 6.5 mg/L. The presence of ferrous iron concentrations in combination with non-detectable nitrate levels is indicative of anaerobic biodegradation beneath the Site.

The absence of sulfate in the groundwater samples may be indicative of an anaerobic methanogenesis process. Sulfate was below the equipment's tolerance level in well MW-5 and extraction well EX-1. Detectable sulfate concentrations ranged from 6 mg/L in well MW-4 to the maximum allowable equipment tolerance level of 80 mg/L in well MW-1 and the center French drain riser.

2.2 Laboratory Analytical Results

Table 1 presents the results of the laboratory analyses on the groundwater samples collected from the monitoring wells, extraction well EX-1, and the French drain. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and Methyl tertiary Butyl Ether (MtBE).

As shown in Table 1, TPH-g was below the laboratory reporting limit in wells MW-1, MW-3, MW-6, extraction well EX-1, and from the sample collected from the French drain. Detectable TPH-g concentrations ranged from 1,690 ug/L in well MW-4 to 32,400 μg/L in well MW-2R.

Figure 4 displays the contour map of TPH-g concentrations in the groundwater. As illustrated in Figure 4, the TPH-g plume appears to be centrally located in the vicinity east of the French drain. The TPH-g concentration in well MW-2R is several orders of magnitude higher than the remaining site wells.

In wells MW-1, MW-3, MW-6, the center French drain riser, and extraction well EX-1, all BTEX constituents were below the laboratory reporting limit. In well MW-4, both toluene and total xylenes were below the laboratory reporting limit, and benzene and ethylbenzene were at low levels. The highest BTEX analytes were detected in well MW-2R, at 1,010 ug/L, 3,110 ug/L, 1,230 ug/L, and 4,050 ug/L, respectively.

Figure 5 displays the contour map of benzene concentrations in the groundwater. The majority of the benzene plume appears to be centrally located east of the French drain, around well MW-2R. Only trace or non-detectable benzene levels were observed beyond this region.

MtBE was detected in all of the groundwater samples collected during the Third Quarter 2005 monitoring event. MtBE concentrations ranged from 4.6 μg/L in MW-4 to 1,800 μg/L in well MW-3. Figure 6 displays the contour map of MtBE concentrations in the groundwater. The most impacted MtBE region appears to be in the southwestern region of the Site, around well MW-3. The MtBE plume has migrated off-site and was detected in all off-site wells. The off-site migration of MtBE can be attributed to the solubility of MtBE in groundwater.

Table 2 presents the results of the laboratory analyses on the groundwater samples for gasoline oxygenates and lead scavengers. The only detected gasoline oxygenate and lead scavenger was TBA. Figure 7 displays the contour map of the TBA concentrations in the groundwater. As illustrated in Figure 7, the most impacted TBA region was located in the southwestern region of the Site, around well MW-3 and the center French drain riser. A high TBA concentration was also detected in extraction well EX-1.

2.3 Historical Analytical Trend

Table 1 also displays the historical TPH-g, BTEX, and MTBE groundwater analytical data. Based on the laboratory analytical results, the following trends for the more impacted monitoring wells MW-2R, MW-3, and MW-5 were observed since the previous monitoring event (Second Quarter 2005).

In on-site well MW-2R:

- TPH-g and MtBE both significantly decreased, both benzene and toluene increased, both ethylbenzene and total xylenes decreased.

In on-site well MW-3:

- TPH-g, toluene, ethylbenzene, and total xylenes all remained below the laboratory reporting limit, benzene decreased, and MtBE significantly decreased.

In on-site well MW-5:

- All BTEX analytes increased, TPH-g increased significantly, and MtBE decreased significantly.

For more detailed TPH-g, BTEX, and MtBE concentration trends refer to Table 1.

TBA has significantly increased throughout the Site's wells.

For more detailed gasoline oxygenate concentration trends refer to Table 2.

Appendix C contains the laboratory report and COC form for the Third Quarter 2005 groundwater monitoring event.

2.4 Free Product Removal

Due to the minimal amount of free product removed from MW-3 in the preceding months, on June 24, 2004, the passive skimmer was removed from well MW-3 and installed in well MW-2R.

Table 3 presents the total volume of free product and contaminated groundwater removed from wells MW-2, MW-2R and MW-3. The total volume of free product and contaminated groundwater removed from the Site is currently 29.32 gallons, as of September 29, 2005.

3.0 Groundwater Treatment System Operation

The remediation system initially began operating in October 2003. The treated groundwater was discharged under the requirements of Order 01-100, NPDES Permit No. CAG912002. During the April 15, 2004 sampling event, TBA was

detected in both the influent and effluent of the remediation system. SOMA notified the RWQCB about the breakthrough of TBA into the effluent of the treatment system.

Due to the difficulty of removing TBA from the groundwater, and based on the approval of the RWQCB, the treatment system was shutdown. On June 1, 2004, SOMA obtained approval from the Central Contra Costa (CCC) Sanitary District to begin discharging the treated groundwater into the on-site sewer main. At the present time, treated groundwater is being discharged into the on-site sewer main. The discharge permit is shown in Appendix D.

Since the system began discharging in October 2003, approximately 1,292,124 gallons of groundwater has been treated and discharged at the Site (as of September 9, 2005). On January 1, 2005, the remedial groundwater system, which consisted of a vacuum air stripper, was taken offline. The groundwater is currently being treated by a GAC system.

As required by the discharge permit, sampling and maintenance of the groundwater treatment system has been performed on a routine basis. Grab groundwater samples have been collected on a routine basis to determine the efficiency of the treatment system in removing TPH-g, MtBE, and benzene from the groundwater beneath the Site.

As shown in Table 4, all TPH-g, MtBE, and BTEX constituents have remained below the allowable discharge permit's requirements. Appendix E presents the most current laboratory report for the treatment system samples.

Table 4 also shows the operational summary of the treatment system. The last carbon change-out on the system occurred on August 31, 2005. At this time, the existing 2,000-pound carbon vessel was removed and replaced with a newer 2,000 pound carbon vessel, and the two 55-gallon carbon drums, each with approximately 200 pounds of carbon, were also replaced.

The cumulative masses of TPH-g, MtBE, and benzene extracted from the groundwater, since the installation of the treatment system, are shown in Table 5. As shown in Table 5, the cumulative masses of TPH-g, MtBE, and benzene removed as of September 9, 2005 are 100.03 pounds, 79.26 pounds, and 3.90 pounds, respectively. The cumulative masses of each of the above referenced constituents are also displayed in Figure 8.

4.0 Conclusions and Recommendations

The findings of the Third Quarter 2005 groundwater monitoring event can be summarized as follows:

- Based on the reported groundwater elevations, the extraction well and French drain are providing excellent capture zones.

- Based on the natural attenuation study, it can be concluded that biodegradation of petroleum hydrocarbons is occurring in the subsurface. In general, low DO concentrations were observed throughout the Site, as well as high negative redox potentials. Nitrate was not detected in wells MW-3 to MW-6, EX-1, and the sample collected from the French drain. Sulfate was not detected in wells MW-5 and EX-1. Based on these factors, anaerobic biodegradation, as well as anaerobic methanogenesis, is possible at this location.

- Based on the analytical results, the highest TPH-g and BTEX concentrations were detected in on-site monitoring well MW-2R. This region still continues to be an impacted source area. However, TPH-g decreased significantly in well MW-2R since the previous monitoring event.

- The highest gasoline oxygenate concentrations, which include MtBE and TBA, appear to be in the southwestern section of the Site. The highest MtBE and TBA concentrations were detected in well MW-3, at 1,800 ug/L and 53,400 ug/L, respectively.

- TBA is formed in the environment through oxidation of MtBE in the atmosphere followed by hydrolysis or through microbial oxidation of MtBE in impacted aquifer materials. As MtBE appears to have decreased significantly in well MW-3, and site-wide, TBA appears to have significantly increased site-wide.

The following continuous on-site remedial observations were observed.

- As of September 29, 2005, approximately 29.32 gallons of contaminated groundwater and free product have been removed from wells MW-2, MW-2R, and MW-3.

- As of September 9, 2005, approximately 1,292,124 gallons of groundwater has been treated and discharged at the Site.

- The cumulative masses of TPH-g, MtBE and benzene removed from the groundwater and treated by the treatment system are 100.03 pounds, 79.26 pounds, and 3.90, respectively, as of September 9, 2005.

Based on the results of this monitoring event, SOMA recommends:

- Continuing the quarterly monitoring programs to better understand the seasonal variation in the groundwater quality conditions and rate of contaminant removal.

- Further monitoring of the bio-attenuation parameters in the groundwater. This will aid in determining if biodegradation is feasible for the significant reduction of petroleum hydrocarbon concentrations in the areas of contamination.

- Routine monitoring of the Site remedial activities to determine the efficiency of the treatment system in removing contaminant mass in the groundwater, especially in the region of wells MW-2R and MW-3.

- Based on the recent low free product recovery rate from well MW-2R, the free product removal from this well may be temporarily terminated. However, due to the elevated TPH-g levels observed in well MW-2R, injection of hydrogen peroxide (Fenton's reagent) may be warranted.

- Based on the continuing non-detectable nitrate concentrations observed during the quarterly monitoring events, SOMA recommends injecting nitrate into all of the site wells to enhance biodegradation in the groundwater at these locations.

- Based on the increased TBA levels observed during this monitoring event, SOMA recommends injecting peroxide reagents into the Site's wells to decrease the levels of TBA.

Tables

Table 1
Historical Groundwater Elevation Data & Analytical Results
2185 Solano Way, Concord, California

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE [1] (µg/L)
MW-1	Mar-00	101.40	6.75	94.65	3500	31	3.4	140	250	520
	Oct-00	101.40	11.55	89.85	NA	NA	NA	NA	NA	NA
	Feb-01	101.40	10.70	90.70	650	16	4.2	21	6	420
	May-01	101.40	9.59	91.81	160	5.9	1.0	2.7	2.5	420
	Aug-01	101.40	11.37	90.03	250	5.5	2.3	5.5	13	470
	Oct-01	101.40	11.92	89.48	140	5	4.4	4.2	10.9	310
	Feb-02	101.40	8.72	92.68	240	9.7	4.2	11	6.3	160
	May-02	101.40	9.30	92.10	64	0.81	<0.5	<0.5	<0.5	110
	Jul-02	101.40	10.65	90.75	110	1.90	< 0.5	2.8	4.3	130
	Nov-02	101.40	10.85	90.55	<50	<0.5	<0.5	<0.5	<0.5	160
	Feb-03	101.40	8.26	93.14	<50	0.58	<0.5	0.66	0.85	43
	May-03 [2]	40.78	8.23	32.55	<50	<0.5	<0.5	<0.5	0.54	18
	Aug-03	40.78	10.74	30.04	<50	<0.5	<0.5	<0.5	<0.5	29
	Oct-03	40.78	11.91	28.87	<50	<0.5	<0.5	<0.5	<0.5	33
	Feb-04	40.78	9.69	31.09	<50	<0.5	<0.5	<0.5	<0.5	25
	Apr-04	40.78	8.85	31.93	<50	<0.5	<0.5	<0.5	<0.5	16
	Jul-04	40.78	10.45	30.33	<50	<0.5	<0.5	<0.5	<0.5	15
	Oct-04	40.78	11.74	29.04	<50	<0.5	<0.5	<0.5	<0.5	15
	Feb-05	40.78	7.06	33.72	<50	<2.0	<2.0	<2.0	<2.0	290
	Apr-05	40.78	7.13	33.65	332	3.39	9.49	8.59	39.20	102
	Sep-05	**40.78**	**10.87**	**29.91**	**<50**	**<0.5**	**<2.0**	**<0.5**	**<1.0**	**5.97**
MW-2	Mar-00	101.38	8.85	92.53	180,000	17,000	29,000	3,800	21,000	180,000
	Oct-00	101.38	13.80	87.58	NA	NA	NA	NA	NA	NA
	Feb-01	101.38	12.14	89.24	14,000	19,000	37,000	3,600	26,600	79,000
	May-01	101.38	10.72	90.66	150,000	13,000	30,000	3,600	19,800	62,000
	Aug-01	101.38	11.77	89.61	NA	NA	NA	NA	NA	NA
	Oct-01	101.38	12.35	89.03	NA	NA	NA	NA	NA	NA
	Feb-02	101.38	10.31	91.07	190,000 [3]	63,902 [3]	NA	NA	NA	3,590,000 [3,4]
	May-02	101.38	10.57	90.81	190,000 [3]	63,902 [3]	NA	NA	NA	3,590,000 [3,4]
	Jul-02	101.38	NM	NM	190,000 [3]	63,902 [3]	NA	NA	NA	3,590,000 [3,4]
	Nov-02	101.38	11.10	90.28	29,000 H	63	270	220	770	130
	Feb-03	101.38	NM	NM	NA	NA	NA	NA	NA	NA
	Apr-03	101.38	AB	AB	AB	AB	AB	AB	AB	AB

Table 1
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2185 Solano Way, Concord, California

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE [1] (µg/L)
MW-2R*	May-03 [2,5]	40.85	10.54	30.31	840	140	4.8 C	23	27.6	260
	Aug-03	40.85	11.96	28.89	440	220	7.6	30	23.1	570
	Oct-03	40.85	12.59	28.26	13000	1500	2700	480	2040	490
	Feb-04	40.85	17.54	23.31	56000	2500	6600	1300	7000	370
	Apr-04	40.85	12.34	28.51	69,000	810	3,300	2,100	11,500	550
	Jul-04	40.85	12.40	28.45	55,000	470	1,900	1,900	10,500	170
	Oct-04	40.85	13.00	27.85	100,000	8,400	11,000	3,000	14,000	730
	Feb-05	40.85	11.29	29.56	78,000	1,700	8,000	2,800	15,700	580
	Apr-05	40.85	11.46	29.39	104,000	662	1,590	1,510	8,210	636
	Sep-05	**40.85**	**18.78**	**22.07**	**32,400**	**1,010**	**3,110**	**1,230**	**4,050**	**44.7**
MW-3	Mar-00	101.27	9.95	91.32	200,000	8,400	5,600	2,400	8,700	490,000
	Oct-00	101.27	11.85	89.42	NA	NA	NA	NA	NA	NA
	Feb-01	101.27	11.08	90.19	5,600	2,300	520	<200	1,250	290,000
	May-01	101.27	10.49	90.78	5,300	1,400	190	110	178	270,000
	Aug-01	101.27	11.72	89.55	3,200	<630	<630	<630	<630	210,000
	Oct-01	101.27	12.10	89.17	94	920	<630	<630	<630	140,000
	Feb-02	101.27	9.81	91.46	18,000	3,000	640	790	930	350,000
	May-02	101.27	10.30	90.97	190,000 [3]	63,902 [3]	NA	NA	NA	3,590,000 [3,4]
	Jul-02	101.27	11.30	89.97	4,300	1,100	< 100	110	190	140,000
	Nov-02	101.27	11.21	90.06	7,800 Z	2,200	43	120	84 C	170,000
	Feb-03	101.27	9.82	91.45	5,100	910	210	87	326	190,000
	May-03 [2]	40.29	10.06	30.23	4,800	840	130	91	216	170,000
	Aug-03	40.29	11.64	28.65	8,700	520	57 C	89	296	160,000
	Oct-03	40.29	12.28	28.01	2,000	170	3.4 C	21	38.6 C	100,000
	Feb-04	40.29	12.24	28.05	1,700	240	74	36	94	10,000
	Apr-04	40.29	13.32	26.97	1,600	620	49	66	140	5,100
	Jul-04	40.29	11.92	28.37	860	230	3.2 C	46	36.4	3,800
	Oct-04	40.29	12.31	27.98	500	87	2.1 C	18	15.5	2,600
	Feb-05	40.29	10.40	29.89	1,900	270	97	<63	100	8,600
	Apr-05	40.29	10.40	29.89	<21,500	305	<53.8	<53.8	<108	22,300
	Sep-05	**40.29**	**12.35**	**27.94**	**<4620**	**<46.2**	**<185**	**<46.2**	**<92.5**	**1,800**

Table 1
Historical Groundwater Elevation Data & Analytical Results
2185 Solano Way, Concord, California

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE [1] (µg/L)
MW-4	Oct-00	100.00	11.30	88.70	3,400	30	53	170	42	10,900
	Feb-01	100.00	11.41	88.59	5,600	4.8	3.0	110	24.8	1,900
	May-01	100.00	11.07	88.93	3,900	13	23	210	49.2	1,100
	Aug-01	100.00	11.88	88.12	4,400	5	<4.2	52	11.0	1,100
	Oct-01	100.00	10.92	89.08	2,600	7.7	<4.2	26	11	1,600
	Feb-02	100.00	10.98	89.02	4,000	19	3.7	43	7.6	3,400
	May-02	100.00	11.28	88.72	2,900	28 [C]	<2.5	15	5.9	4,600
	Jul-02	100.00	11.65	88.35	2,400	6.8 C	< 5.0	14	< 5.0	2,200
	Nov. 02	100.00	11.59	88.41	3,400 H	<0.5	<0.5	15	9.01 C	1,700
	Feb-03	100.00	10.88	89.12	3,200	<5.0	<5.0	12	24.6	6,500
	May-03 [2]	39.56	11.09	28.47	2,900	<0.5	<0.5	8.5	1.4 C	8,200
	Aug-03	39.56	11.87	27.69	1,700	<2.5	5.2	3.0	<2.5	7,200
	Oct-03	39.56	11.97	27.59	1,200	<0.5	<0.5	2.1	<0.5	3,800
	Feb-04	39.56	11.26	28.30	1,300	<2.5	<2.5	4.6	<2.5	2,400
	Apr-04	39.56	11.38	28.18	1,600	6.4 C	<0.5	4.4	0.82	330
	Jul-04	39.56	11.84	27.72	1,200	3.9 C	<0.5	3.1 C	0.51 C	32
	Oct-04	39.56	11.99	27.57	810	5.1 C	<0.5	4.3	0.70	9.8
	Feb-05	39.56	10.87	28.69	2,200	1.5	<0.7	3.4	1.20	14
	Apr-05	39.56	10.87	28.69	6,930	0.69	<0.5	6.07	<1.0	10.7
	Sep-05	**39.56**	**11.50**	**28.06**	**1,690**	**2.73**	**<2.0**	**1.88**	**<1.0**	**4.6**
MW-5	Oct-00	100.04	11.40	88.64	1,700	205	58	60	26	96,670
	Feb-01	100.04	10.56	89.48	5,800	46	25	57	47.7	54,000
	May-01	100.04	10.40	89.64	6,000	140	29	48	39.8	80,000
	Aug-01	100.04	11.20	88.84	4,700	<170	<170	<170	<170	40,000
	Oct-01	100.04	11.30	88.74	6,000	<170	<170	<170	<170	42,000
	Feb-02	100.04	10.19	89.85	5,000	70	<50	<50	<50	73,000
	May-02	100.04	10.29	89.75	5,800	190	19 [C]	45	32	120,000
	Jul-02	100.04	10.92	89.12	4,400	< 100	< 100	< 100	< 100	56,000
	Nov. 02	100.04	10.84	89.20	5,000 H	72	<0.5	32	10.5 C	26,000
	Feb-03	100.04	9.94	90.10	6,200	150	<5.0	48	12	89,000
	May-03 [2]	38.14	NM	NM	NA	NA	NA	NA	NA	NA
	Aug-03	38.14	10.97	27.17	5,000	76 C	<25	<25	<25	64,000
	Oct-03	38.14	11.28	26.86	7,100	<0.5	<0.5	5.2 C	10.77 C	25,000
	Feb-04	38.14	10.39	27.75	4,000	55	<5.0	16 C	7.9 C	19,000
	Apr-04	38.14	10.50	27.64	6,000	87	<13	32	<13	27,000
	Jul-04	38.14	10.98	27.16	6,500	44	<13	30	<13	13,000
	Oct-04	38.14	11.42	26.72	6,100	110	<1.0	23	8.4	1,300
	Feb-05	38.14	10.08	28.06	4,400	42	<4.2	12	6.3	860
	Apr-05	38.14	10.15	27.99	<8600	27.5	<21.5	<21.5	<43	1,680
	Sep-05	**38.14**	**11.29**	**26.85**	**10,200**	**59.4**	**4.34**	**14.4**	**3.43**	**124**

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Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE [1] (µg/L)
MW-6	Oct-00	99.76	11.50	88.26	80	<0.5	4	<0.5	1.7	85
	Feb-01	99.76	10.62	89.14	64	0.63	1.2	<0.5	2.7	54
	May-01	99.76	10.20	89.56	<50	<0.5	<0.5	<0.5	0.56	58
	Aug-01	99.76	10.86	88.90	<50	<0.5	1.2	0.9	3.80	47
	Oct-01	99.76	12.50	87.26	88	3.0	3.8	3.8	11.1	54
	Feb-02	99.76	9.98	89.78	<50	<0.50	<0.50	<0.50	<0.50	43
	May-02	99.76	10.16	89.60	65	0.84 [C]	1.1	1.4	4.6	42
	Jul-02	99.76	10.56	89.20	< 50	< 0.5	< 0.5	< 0.5	< 0.5	31
	Nov-02	99.76	10.52	89.24	<50	<0.5	<0.5	<0.5	<0.5	32
	Feb-03	99.76	9.82	89.94	<50	<0.5	<0.5	<0.5	<0.5	33
	May-03 [2]	37.85	9.99	27.86	<50	<0.5	<0.5	<0.5	<0.5	30
	Aug-03	37.85	10.64	27.21	<50	<0.5	<0.5	<0.5	<0.5	34
	Oct-03	37.85	10.91	26.94	<50	<0.5	<0.5	<0.5	<0.5	31
	Feb-04	37.85	9.92	27.93	<50	<0.5	<0.5	<0.5	<0.5	33
	Apr-04	37.85	10.07	27.78	<50	<0.5	<0.5	<0.5	<0.5	39
	Jul-04	37.85	10.60	27.25	<50	<0.5	<0.5	<0.5	<0.5	57
	Oct-04	37.85	10.78	27.07	<50	<0.5	<0.5	<0.5	<0.5	160
	Feb-05	37.85	9.62	28.23	<50	<1.7	<1.7	<1.7	<1.7	280
	Apr-05	37.85	9.80	28.05	<200	<0.5	<0.5	<0.5	<1.0	249
	Sep-05	**37.85**	**10.65**	**27.20**	**<100**	**<1.0**	**<4.0**	**<1.0**	**<2.0**	**247**
FDC	Aug-03	41.29	11.63	29.66	3100	1800	<25	130	<25	94,000
	Oct-03	41.29	12.15	29.14	4900	1200	130	210	490	110,000
	Feb-04	41.29	16.21	25.08	2100	170	<17	130	45	3,300
	Apr-04	41.29	14.83	26.46	NA	NA	NA	NA	NA	NA
	Jul-04	41.29	15.98	25.31	NA	NA	NA	NA	NA	NA
	Oct-04	41.29	15.20	26.09	NA	NA	NA	NA	NA	NA
	Feb-05	41.29	16.20	25.09	NA	NA	NA	NA	NA	NA
	Apr-05	41.29	16.24	25.05	NA	NA	NA	NA	NA	NA
	Sep-05	**41.29**	**14.10**	**27.19**	**<5380**	**<53.8**	**<215**	**<53.8**	**<108**	**342**
FDE	Aug-03	40.21	11.30	28.91	NA	NA	NA	NA	NA	NA
	Oct-03	40.21	11.94	28.27	NA	NA	NA	NA	NA	NA
	Feb-04	40.21	14.62	25.59	NA	NA	NA	NA	NA	NA
	Apr-04	40.21	12.10	28.11	NA	NA	NA	NA	NA	NA
	Jul-04	40.21	12.66	27.55	NA	NA	NA	NA	NA	NA
	Oct-04	40.21	12.41	27.80	NA	NA	NA	NA	NA	NA
	Feb-05	40.21	15.50	24.71	NA	NA	NA	NA	NA	NA
	Apr-05	40.21	15.42	24.79	NA	NA	NA	NA	NA	NA
	Sep-05	**40.21**	**14.60**	**25.61**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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FDW	Aug-03	40.18	11.55	28.63	NA	NA	NA	NA	NA	NA
	Oct-03	40.18	12.28	27.90	NA	NA	NA	NA	NA	NA
	Feb-04	40.18	13.98	26.20	NA	NA	NA	NA	NA	NA
	Apr-04	40.18	12.02	28.16	1,000	780	5.7 C	54	9.2 C	6,700
	Jul-04	40.18	12.92	27.26	820	200	<5.0	59	<0.5	8,400
	Oct-04	40.18	13.10	27.08	400	7.3	<0.5	4.3	2.14	90
	Feb-05	40.18	13.07	27.11	590	140	<31	<31	<31	4,700
	Apr-05	40.18	12.40	27.78	<4300	313	16	88.6	136.8	5,730
	Sep-05	**40.18**	**13.10**	**27.08**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
EX-1	Aug-03	37.58	10.44	27.14	NA	NA	NA	NA	NA	NA
	Oct-03	37.58	10.71	26.87	NA	NA	NA	NA	NA	NA
	Feb-04	37.58	15.98	21.60	NA	NA	NA	NA	NA	NA
	Apr-04	37.58	16.33	21.25	NA	NA	NA	NA	NA	NA
	Jul-04	37.58	16.34	21.24	NA	NA	NA	NA	NA	NA
	Oct-04	37.58	16.10	21.48	3,000	46	8.0 C	8.1	3.2	5,600
	Feb-05	37.58	16.38	21.20	2,900	<20	<20	<20	<20	3,200
	Apr-05	37.58	15.59	21.99	<8600	23.2	<21.5	<21.5	<43	2,870
	Sep-05	**37.58**	**14.46**	**23.12**	**<2150**	**<21.5**	**<86**	**<21.5**	**<43**	**461**

Notes:

AB: Abandoned. MW-2 was abandoned and replaced with MW-2R on April 16, 2003.

C: Presence confirmed, but confirmation concentration differed by more than a factor of two.

H: Heavier hydrocarbons contributed to the quantitation.

NA: Not analyzed. Well MW-2 not analyzed due to free product in well from Feb 2002 to July 2002. Free Product in well MW-3 in May 2002
MW-2 was not analyzed in Feb 2003 due construction activities.
MW-5 was not analyzed in the Second Quarter 2003, the well was inaccessible, a car was parked over well.

NM: Not Measured. Well MW-2 was not measured due to construction activities in this area. The well was inaccessible.
MW-5 was not measured in the 2nd Q 03 GW event, due to a car parked over the well. The well was inaccessible.

Z : Sample exhibits unknown single peak or peaks.

<: Not Detected above the laboratory reporting limit.

[1] MtBE confirmed by EPA Method 8260B.

[2] The wells were re-surveyed by Kier & Wright Engineers Surveyors, Inc of Pleasanton, CA on July 8, 2003. The new elevations are based on the assumed datum of 33.71 NAVD88.

[3] Concentrations for MW-2 (Feb 2002-Jul 2002), MW-3 (May 2002) were estimated based on solubilty rates and mole ratios at 25°C.

[4] Solubility for MtBE concentration (MW-2 (Feb 2002 to Jul 2002), MW-3 (May 2002) was based on gasoline consisting of 10% MtBE.

[5] MW-2R replaced monitoring well MW-2 during the Second Quarter 2003. Well MW-2 was damaged during installation of the French drain.

The first time the French drain center riser was sampled was during the Third Quarter 2003.
The first time the French drain west riser was sampled was during the Second Quarter 2004.
EX-1 and the French drain risers (center, east, and west) were first measured for groundwater elevations during the Third Quarter 2003. The system was not operational during the Third Quarter 2003 monitoring event.

Table 2
Groundwater Analytical Results
Gasoline Oxygenates & Lead Scavengers
2185 Solano Way, Concord, California

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
MW-1	Apr-04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1,000
	Jul-04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1,000
	Oct-04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1,000
	Feb-05	1,400	<2.0	<2.0	<2.0	<2.0	<2.0	<4,000
	Apr-05	<2.5	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
	Sep-05	**29.8**	**<0.5**	**<0.5**	**<2.0**	**<0.5**	**<0.5**	**<1,000**
MW-2R	Apr-04	<83	<4.2	<4.2	<4.2	<4.2	<4.2	<8,300
	Jul-04	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<7,100
	Oct-04	<250	<13	<13	<13	170	<13	<25,000
	Feb-05	<830	<42	<42	<42	<42	<42	<83,000
	Apr-05	<269	<53.8	<53.8	<215	<53.8	<53.8	<108,000
	Sep-05	**660**	**<10.8**	**<10.8**	**<43**	**<10.8**	**<10.8**	**<21,500**
MW-3	Apr-04	68,000	<50	<50	<50	<50	<50	<100,000
	Jul-04	69,000	<20	<20	<20	<20	<20	<40,000
	Oct-04	43,000	<31	<31	<31	<31	<31	<63,000
	Feb-05	76,000	<63	<63	<63	<63	<63	<130,000
	Apr-05	4,770	<53.8	<53.8	<215	<53.8	<53.8	<108,000
	Sep-05	**53,400**	**<46.2**	**<46.2**	**<185**	**<46.2**	**<46.2**	**<92,500**
MW-4	Apr-04	3,000	<2.5	<2.5	<2.5	<2.5	<2.5	<5,000
	Jul-04	2,500	1.2	<0.7	<0.7	<0.7	<0.7	<1,400
	Oct-04	990	<0.7	<0.7	<0.7	<0.7	<0.7	<1,400
	Feb-05	1,200	<0.7	<0.7	<0.7	<0.7	<0.7	<1,400
	Apr-05	922	0.89	<0.5	<2.0	<0.5	<0.5	<1,000
	Sep-05	**332**	**<0.5**	**<0.5**	**<2.0**	**<0.5**	**<0.5**	**<1,000**
MW-5	Apr-04	<5,000	<250	<250	<250	<250	<250	<500,000
	Jul-04	14,000	<36	<36	<36	<36	<36	<71,000
	Oct-04	1,400	<10	<10	<10	<10	<10	<20,000
	Feb-05	4,900	<4.2	<4.2	<4.2	<4.2	<4.2	<8,300
	Apr-05	3,470	<21.5	<21.5	<86	<21.5	<21.5	<43,000
	Sep-05	**856**	**<0.5**	**<0.5**	**<2.0**	**<0.5**	**<0.5**	**<1,000**

Table 2
Groundwater Analytical Results
Gasoline Oxygenates & Lead Scavengers
2185 Solano Way, Concord, California

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
MW-6	Apr-04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1,000
	Jul-04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1,000
	Oct-04	<25	<1.3	<1.3	<1.3	<1.3	<1.3	<2,500
	Feb-05	<33	<1.7	<1.7	<1.7	<1.7	<1.7	<3,300
	Apr-05	<2.5	<0.5	<0.5	<2.0	<0.5	<0.5	<1,000
	Sep-05	**41.9**	**<1.0**	**<1.0**	**<4.0**	**<1.0**	**<1.0**	**<2,000**
French Drain & Extraction Well (EX-1)								
F.D.West	Apr-04	41,000	<3.6	<3.6	<3.6	<3.6	<3.6	<7,100
	Jul-04	67,000	<50	<50	<50	<50	<50	<100,000
	Oct-04	39,000	<17	<17	<17	<17	<17	<33,000
	Feb-05	9,000	<31	<31	<31	<31	<31	<63,000
	Apr-05	6,910	<10.8	<10.8	<43	<10.8	<10.8	<21,500
F.D.Center	**Sep-05**	**52,400**	**<53.8**	**<53.8**	**<215**	**<53.8**	**<53.8**	**<108,000**
EX-1	Oct-04	12,000	<36	<36	<36	<36	<36	<71,000
	Feb-05	24,000	<20	<20	<20	<20	<20	<40,000
	Apr-05	<108	<21.5	<21.5	<86	<21.5	<21.5	<43,000
	Sep-05	**25,500**	**<21.5**	**<21.5**	**<86**	**<21.5**	**<21.5**	**<43,000**

Notes:
<: Not detected above the laboratory reporting limit.

Gasoline Oxygenates:
TBA: tertiary butyl alcohol
DIPE: Isopropyl ether
ETBE: Ethyl tertiary butyl ether
TAME: Methyl tertiary amyl ether
Ethanol

Lead Scavengers:
1,2-Dichloroethane
EDB: 1,2-Dibromoethane

Since the 2nd Q 2004 monitoring event, grab groundwater samples have been tested for gasoline oygenates, lead scavengers, and ethanol to determine the extent of gasoline oxygenate impact to the groundwater.

Table 3
Total Volume of Free Product Removed
2185 Solano Way, Concord, California

Date	MW-2			
	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)
2002				
MW-2				
05/23/02	Passive Canister Installed		3.00	3.000
5/31/2002[1]	0.092	0.092	0.000	0.184
6/10/2002[2]	0.031	0.169	0.500	0.699
6/14/2002[2]	0.023	0.153	1.000	1.176
6/21/2002[2]	0.003	0.184	1.000	1.187
6/26/2002[1]	0.460	0.230	2.392	3.082
7/5/2002[2]	0.003	0.092	1.000	1.095
7/19/2002	0.010	0.001	0.420	0.431
7/26/2002	0.010	0.062	1.380	1.452
8/2/2002[3]	--	--	--	--
8/13/2002[4]	0.017	--	1.000	1.017
8/23/2002	0.015	0.01	1.000	1.025
9/4/2002	0.000	0	1.000	1.000
9/12/2002	0.008	0.060	1.000	1.068
9/19/2002	0.000	0.73	2.250	2.980
9/25/2002	0.003	0.06	1.500	1.563
10/21/2002	0.000	0	0.500	0.500
10/30/2002	0.001	0.006	0.828	0.835
11/5/2002	0.001	0.003	NB	0.004
11/14/2002	0.004	0	2.010	2.014
11/20/2002	0.001	0	1.520	1.521
12/6/2002	0.003	0.04	1.000	1.043

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Total Volume of Free Product Removed
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Date	MW-2			
	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)
MW-3				
2003				
7/22/2003	0.000	0.030	NB	0.030
7/30/2003	0.000	0.024	NB	0.024
8/6/2003	0.001	0.011	NB	0.013
8/12/2003	0.001	0.011	NB	0.013
8/20/2003	0.000	0.011	NB	0.011
8/26/2003	0.000	0.031	NB	0.031
9/10/2003	0.000	0.061	NB	0.061
9/19/2003	0.000	0.031	NB	0.031
9/23/2003	0.000	0.061	NB	0.061
10/3/2003	0.000	0.031	NB	0.031
10/9/2003	0.007	0.046	NB	0.053
10/16/2003	0.004	0.046	NB	0.050
10/23/2003	0.007	0.031	NB	0.038
10/29/2003	0.011	0.031	NB	0.042
11/5/2003	0.015	0.031	NB	0.045
11/12/2003	0.015	0.031	NB	0.045
11/26/2003	0.018	0.031	NB	0.049
12/2/2003	0.074	0.061	NB	0.135
12/10/2003	0.066	0.031	NB	0.097
12/16/2003	0.040	0.061	NB	0.102
12/23/2004	0.033	0.061	NB	0.094
12/31/2003	0.011	0.092	NB	0.103
2004				
1/6/2004	0.031	--	NB	0.031
1/13/2004	0.031	--	NB	0.031
1/19/2004	0.031	--	NB	0.031
1/27/2004	0.031	--	NB	0.031
2/3/2004	0.061	--	NB	0.061
2/10/2004	0.031	--	NB	0.031
2/17/2004	0.031	--	NB	0.031
2/25/2004	0.031	--	NB	0.031
3/2/2004	--	--	--	0.000
3/11/2004	--	--	--	0.000
3/18/2004	--	--	--	0.000
3/23/2004	--	--	--	0.000
3/31/2004	--	--	--	0.000
4/5/2004	0.015	--	NB	0.015
4/15/2004	--	--	NB	0.000

Table 3
Total Volume of Free Product Removed
2185 Solano Way, Concord, California

Date	MW-2			
	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)
MW-2R*				
6/24/2004	0.008	--	NB	0.008
6/28/2004	0.004	--	NB	0.004
7/6/2004	--	--	NB	0.000
7/14/2004	--	--	NB	0.000
7/21/2004	--	--	NB	0.000
7/27/2004	0.004	--	NB	0.004
8/4/2004	0.004	--	NB	0.004
8/10/2004	--	--	NB	0.000
8/18/2004	--	--	NB	0.000
8/25/2004	0.004	--	NB	0.004
9/3/2004	0.015	--	NB	0.015
9/10/2004	0.015	--	NB	0.015
9/16/2004	0.015	--	NB	0.015
9/24/2004	0.004	--	NB	0.004
10/1/2004	0.008	--	NB	0.008
10/8/2004	0.008	--	NB	0.008
10/13/2004	0.008	--	NB	0.008
10/20/2004	0.008	--	NB	0.008
10/29/2004	0.031	--	NB	0.031
11/5/2004	0.031	--	NB	0.031
11/12/2004	0.031	--	NB	0.031
11/18/2004	0.031	--	NB	0.031
11/24/2004	0.031	--	NB	0.031
12/2/2004	0.061	--	NB	0.061
12/10/2004	0.061	--	NB	0.061
12/14/2004	0.092	--	NB	0.092
12/22/2004	0.061	--	NB	0.061
12/29/2004	0.092	--	NB	0.092

Table 3
Total Volume of Free Product Removed
2185 Solano Way, Concord, California

Date	MW-2			
	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)
2005				
1/7/2005	0.092	--	NB	0.092
1/11/2005	0.092	--	NB	0.092
1/21/2005	0.092	--	NB	0.092
1/28/2005	0.061	--	NB	0.061
2/3/2005	0.061	--	NB	0.061
2/11/2005	0.061	--	NB	0.061
2/16/2005	0.031	--	NB	0.031
3/17/2005	0.031	--	NB	0.031
4/4/2005	0.031	--	NB	0.031
4/15/2005	0.061	--	NB	0.061
4/20/2005	0.031	--	NB	0.031
4/25/2005	0.031	--	NB	0.031
5/2/2005	0.031	--	NB	0.031
5/12/2005	0.061	--	NB	0.061
5/18/2005	0.061	--	NB	0.061
6/17/2005	0.061	--	NB	0.061
6/21/2005	0.031	--	NB	0.031
6/28/2005	0.031	--	NB	0.031
8/3/2005	0.046	--	NB	0.046
8/8/2005	0.046	--	NB	0.046
8/26/2005	0.008	--	NB	0.008
8/31/2005	0.031	--	NB	0.031
9/9/2005	0.046	--	NB	0.046
9/13/2005	0.031	--	NB	0.031
9/20/2005	0.046	--	NB	0.046
9/29/2005	0.015	--	NB	0.015
Total	***3.12***	***1.90***	***24.30***	***29.32***

Notes:

* The skimmer was moved from MW-3 to MW-2R on June 24, 2004

[1] Some water in canister

[2] Mostly water in canister

[3] Passive canister removed and taken to E.I. for servicing

[4] Passive canister was re-installed after being serviced at E.I.

NB: Not bailed contaminated water and free product removed only from skimmer.

The skimmer was removed from well MW-2 due to construction activities during the French drain installation, the skimmer was re-installed in well MW-3.

No free product was observed in the skimmer from 3/2/04 to 4/5/04, 2/25/05 to 3/11/05

Table 3
Total Volume of Free Product Removed
2185 Solano Way, Concord, California

Date	MW-2			
	Total Volume of Free Product Collected (gal.)*	Volume of Contaminated Water Collected in Skimmer (gal.)*	Volume of Contaminated Water Collected by Bailer (gal.)**	Total Volume of Contaminated Water & Free Product Removed (gal.)

Table 4

Total Volume of Treated Water, Historical Operational Data, and Historical Effluent Chemical Analytical Results

2185 Solano Way,Concord

Date	Volume (gallons)	TPH-g (ug/L)	MtBE [1] (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
2003							
27-Oct-03	190	<50	<2.0	<0.5	<0.5	<0.5	<0.5
31-Oct-03	1,860	<50	<2.0	<0.5	<0.5	<0.5	<0.5
14-Nov-03	4,700	<50	<2.0	<0.5	<0.5	<0.5	<0.5
17-Nov-03	13,540	<50	<0.5	<0.5	<0.5	<0.5	<0.5
2004							
6-Jan-04	18,500	<50	<2.0	<0.5	<0.5	<0.5	<0.5
7-Jan-04	25,500	<50	<2.0	<0.5	<0.5	<0.5	<0.5
13-Jan-04	51,000	<50	<2.0	<0.5	<0.5	<0.5	<0.5
*19-Jan-04	75,560	<50	<2.0	<0.5	<0.5	<0.5	<0.5
*21-Jan-04	83,210	<50	<2.0	<0.5	<0.5	<0.5	<0.5
28-Jan-04	106,510	<50	<2.0	<0.5	<0.5	<0.5	<0.5
3-Feb-04	127,010	<50	<2.0	<0.5	<0.5	<0.5	<0.5
10-Feb-04	151,300	<50	<2.0	<0.5	<0.5	<0.5	<0.5
19-Feb-04	184,720	carbon change-out 2000 lb vessel, 2 55-gallon polishing vessels					
25-Feb-04	203,620	<50	<2.0	<0.5	<0.5	<0.5	<0.5
*2-Mar-04	233,840	<50	<2.0	<0.5	<0.5	<0.5	<0.5
9-Mar-04	252,800	<50	<2.0	<0.5	<0.5	<0.5	<0.5
18-Mar-04	261,300	<50	<2.0	<0.5	<0.5	<0.5	<0.5
23-Mar-04	276,430	<50	<2.0	<0.5	<0.5	<0.5	<0.5
31-Mar-04	280,222	<50	<2.0	<0.5	<0.5	<0.5	<0.5

Table 4
Total Volume of Treated Water, Historical Operational Data, and Historical Effluent Chemical Analytical Results
2185 Solano Way,Concord

Date	Volume (gallons)	TPH-g (ug/L)	MtBE [1] (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
2004							
5-Apr-04	298,210	<50	<2.0	<0.5	<0.5	<0.5	<0.5
15-Apr-04	328,040	<50	<2.0	<0.5	<0.5	<0.5	<0.5
16-Apr-04	329,020	system shut-down due to TBA detected in effluent sample, discharge permit changed from NPDES to CCC Sanitary District discharge permit					
17-May-04	329,020	flow meter switched to a digital instantaneous meter (GPI 09 Computer Electronics)					
8-Jun-04	329,020	LEL meter Safe T Net 100 installed on system					
10-Jun-04	329,020	Meeting w/ CCC Sanitary District to show District install of flow meter and LEL meter					
14-Jun-04	329,170	Calibration of flow meter by Aqua Sierra, start-up of system, initial discharge to CCC Sanitary District					
14-Jun-04	329,320	<50	NA	<0.5	<0.5	<0.5	<0.5
6-Jul-04	355,053	<50	NA	<0.5	<0.5	<0.5	<0.5
4-Aug-04	371,123	<50	NA	<0.5	<0.5	<0.5	<0.5
10-Sep-04	414,343	<50	<2.0	<0.5	<0.5	<0.5	<0.5
8-Oct-04	463,370	<50	<2.0	<0.5	<0.5	<0.5	<0.5
12-Nov-04	549,217	<50	10.8	<0.5	<0.5	<0.5	<1.0
10-Dec-04	620,760	<50	<0.5	<0.5	<0.5	<0.5	<1.0
2005							
7-Jan-05	710,180	<50	94	<0.5	<0.5	<0.5	<0.5
11-Jan-05	722,070	carbon change-out 2000 lb vessel, 2 55-gallon polishing vessels					
3-Feb-05	778,030	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02-Mar-05	886,800	<4300	<10.8	<10.8	<10.8	<10.8	<21.5
15-Apr-05	985,100	<200	4.34	<0.5	<0.5	<0.5	<1.0
25-Apr-05	1,015,920	carbon change-out 2000 lb vessel, 2 55-gallon polishing vessels					
02-May-05	1,029,276	<200	<0.5	<0.5	<0.5	<0.5	<1.0
18-May-05	1,062,920	installed electrical pump in F.D. West and replaced electrical pump in F.D. East					
10-Jun-05	1,096,570	<200	1.24	<0.5	<2.0	<0.5	<1.0
21-Jun-05	1,126,470	Calibration of flow meter by Aqua Sierra					
31-Aug-05	1,283,614	carbon change-out, replaced 2 55-gallon polishing vessels, removed existing 2000 lb carbon vessel, and replaced with newer 2000 lb carbon vessel					
09-Sep-05	**1,292,124**	**<50**	**<2.0**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Notes:
NA- Not analyzed, based on the Sanitary District requirements for MtBE.
< = not detected above laboratory reporting limits.
1: MtBE Confirmed by EPA Method 8260B.
*: Only effluent sample collected on Jan. 19, Jan. 21, and March 2, 2004

Table 5
Cumulative Mass of Petroleum Hydrocarbons Removed from Groundwater Since Installation of Treatment System
2185 Solano Way,Concord

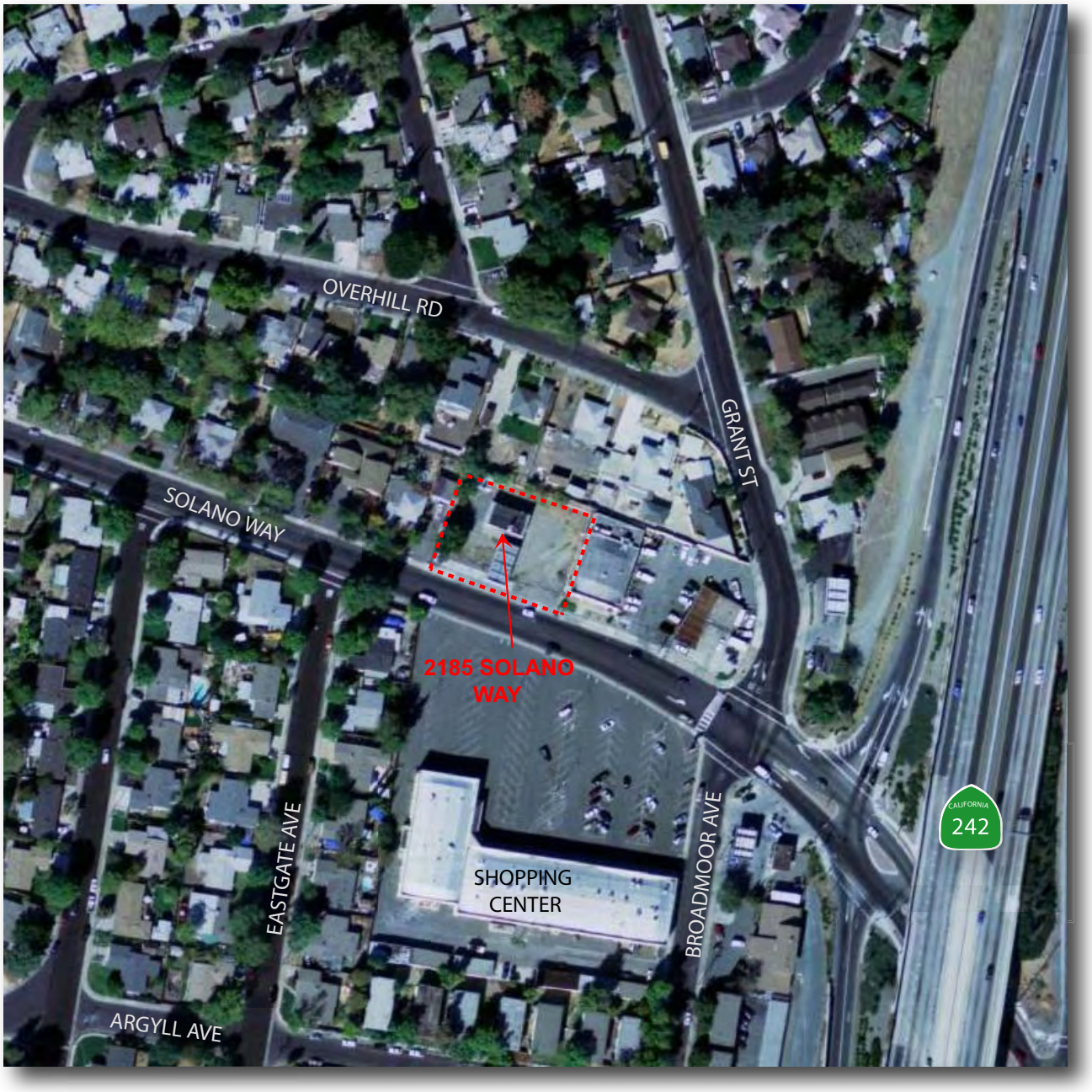
Date	Volume (gallons)	Influent Concentration (µg/L)			Mass Removed (pounds)		
		TPH-g	MtBE *	Benzene	TPH-g	MtBE	Benzene
2003							
27-Oct-03	190	1,000	40,000	150	0.002	0.06	0.0002
31-Oct-03	1,860	2,600	15,000	530	0.04	0.27	0.01
14-Nov-03	4,700	300	26,000	62	0.04	0.89	0.01
17-Nov-03	13,540	<1,300	22,000	140	0.04	2.51	0.02
2004							
6-Jan-04	18,500	10,000	15,000	540	0.46	3.13	0.04
7-Jan-04	25,500	20,000	24,000	1,400	1.62	4.53	0.12
13-Jan-04	51,000	50,000 Y	22,000	750	12.24	9.20	0.28
28-Jan-04	106,510	7,100	16,000	530	15.52	16.59	0.53
3-Feb-04	127,010	11,000	6,200	870	17.40	17.65	0.68
10-Feb-04	151,300	8,300	35,000	130	19.08	24.73	0.70
25-Feb-04	203,620	27,000	5,400	940	30.84	27.08	1.11
9-Mar-04	252,800	12,000	20,000	730	35.75	35.27	1.41
18-Mar-04	261,300	3,700	37,000	690	36.01	37.89	1.46
23-Mar-04	276,430	<2500	36,000	<25	36.01	42.42	1.46
31-Mar-04	280,222	<2500	35,000	170	36.01	43.53	1.47

Table 5
Cumulative Mass of Petroleum Hydrocarbons Removed from Groundwater Since Installation of Treatment System
2185 Solano Way,Concord

Date	Volume (gallons)	Influent Concentration (µg/L)			Mass Removed (pounds)		
		TPH-g	MtBE *	Benzene	TPH-g	MtBE	Benzene
2004							
5-Apr-04	298,210	2,900	36,000	310	36.45	48.92	1.51
15-Apr-04	328,040	4,300	21,000	670	37.52	54.14	1.68
14-Jun-04	329,170	2,700	NA	470	37.54	NA	1.68
6-Jul-04	355,053	3,500	NA	610	38.30	NA	1.81
4-Aug-04	371,123	3,500	NA	430	38.76	NA	1.87
10-Sep-04	414,343	3,200	11,000	150	39.92	58.09	1.93
8-Oct-04	463,370	4,600	5,100	150	41.79	60.18	1.99
12-Nov-04	549,217	5,633	7,525	339.7	45.82	65.55	2.23
10-Dec-04	620,760	205	416	<4.3	45.94	65.80	2.23
2005							
7-Jan-05	710,180	9,800	6,200	520	53.24	70.42	2.62
3-Feb-05	778,030	4,200	4,700	70	55.61	73.07	2.66
2-Mar-05	886,800	14,300	1,300	516	68.56	74.25	3.12
15-Apr-05	985,100	<4200	3,630	15	68.56	77.22	3.14
02-May-05	1,029,276	5,510	1640	158	70.59	77.83	3.19
10-Jun-05	1,096,570	6,060	1,480	244	73.98	78.65	3.33
9-Sep-05	**1,292,124**	**16,000**	**370**	**350**	**100.03**	**79.26**	**3.90**

Notes:
NA- Not analyzed, based on the Sanitary District requirements for MtBE.
< = not detected above laboratory reporting limits.
*: MtBE Confirmed by EPA Method 8260B.
Volume is shown as total system discharge. SOMA began discharging treated groundwater to the Central Contra Costa Sanitary District after 329,020 gallons of total flow through system.

Figures



N

approximate scale in feet

0 150 300

Figure 1: Site vicinity map.

SOMA ENVIRONMENTAL ENGINEERING

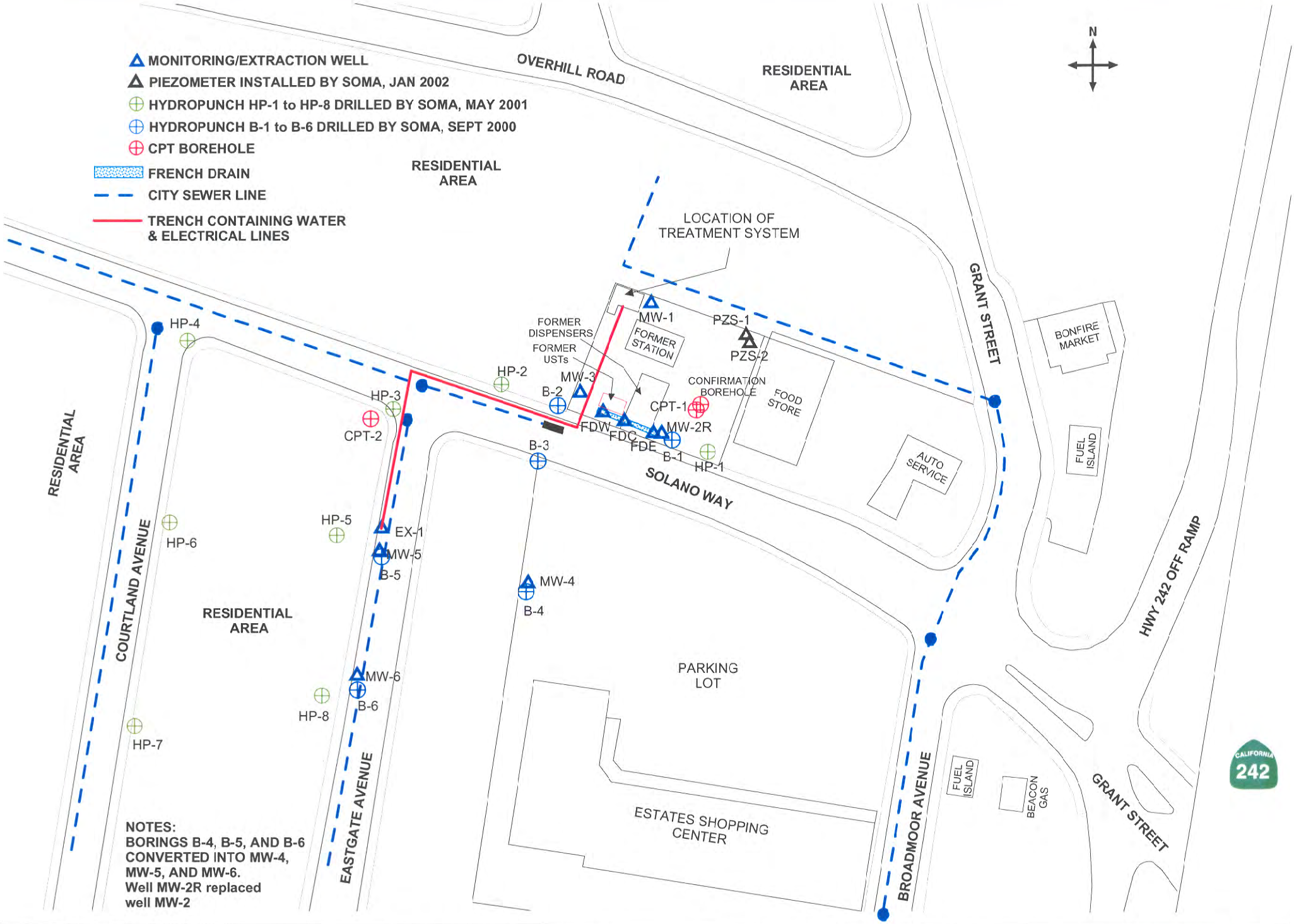


Figure 2: Site map showing locations of groundwater monitoring wells, hydropunches, piezometers, the French drain, and the extraction well.

SOMA ENVIRONMENTAL ENGINEERING, INC.

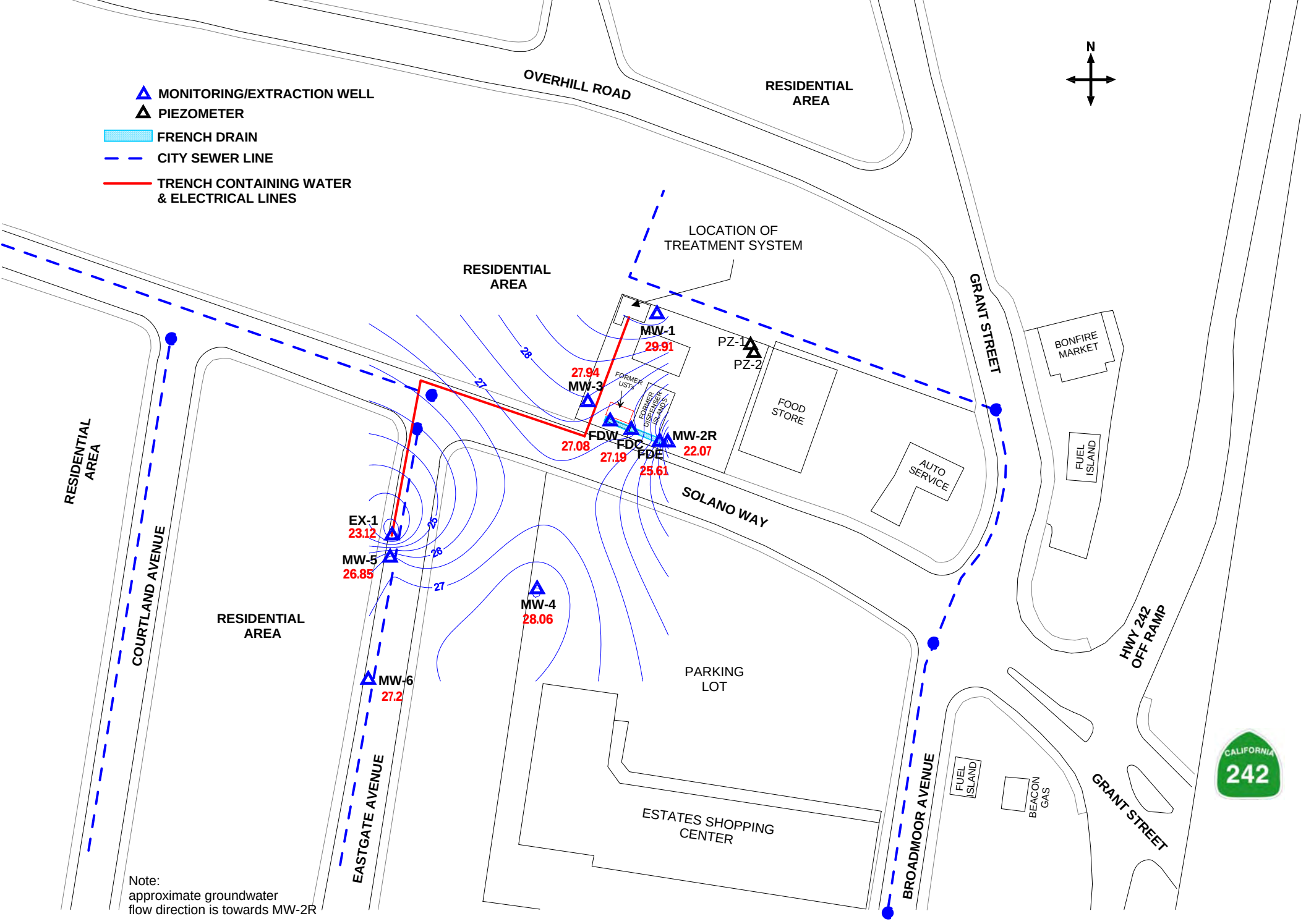


Figure 3: Groundwater elevation contour map in feet.
September 2005.

SOMA ENVIRONMENTAL ENGINEERING, INC.

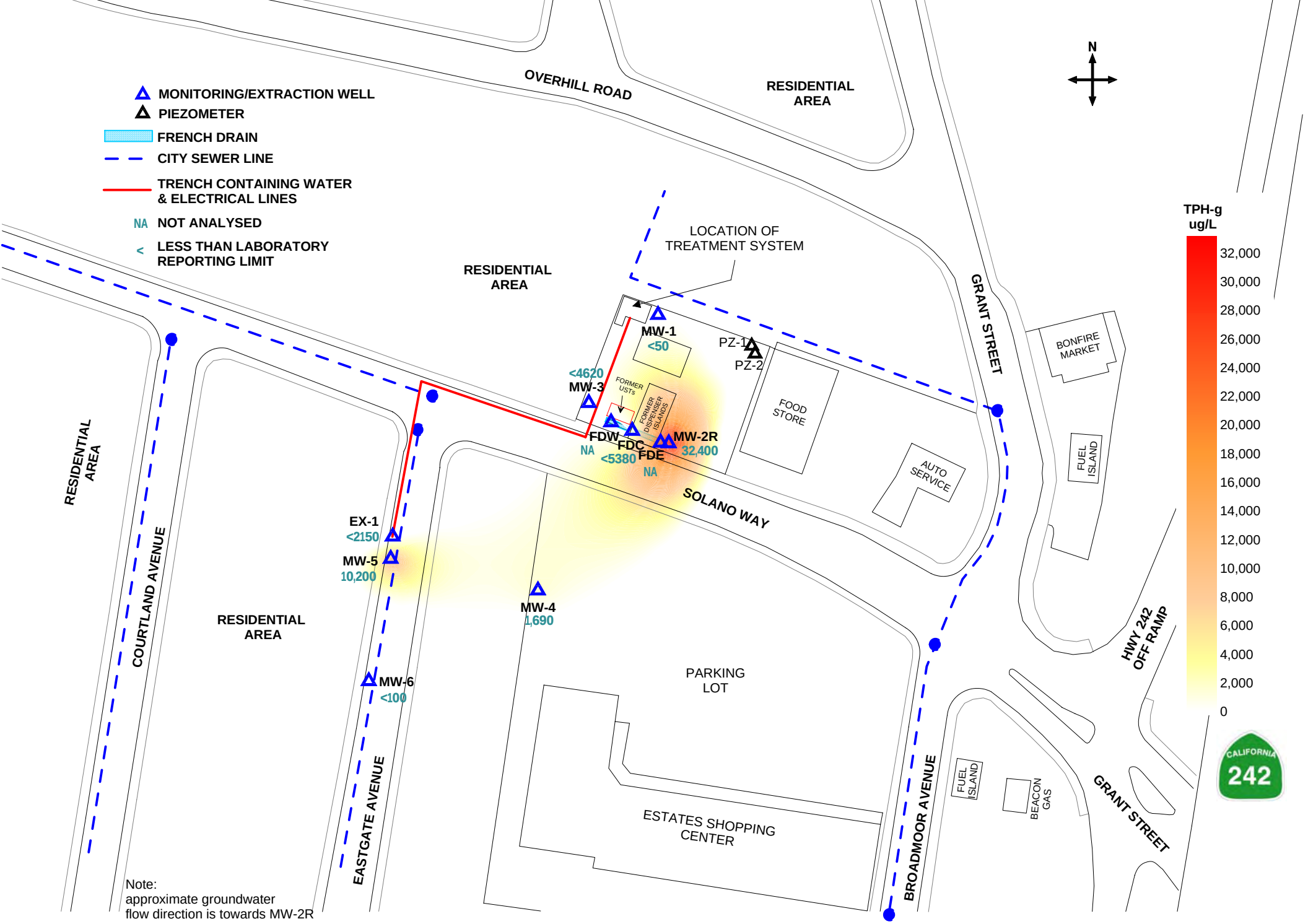


Figure 4: Contour map of TPH-g concentrations in groundwater. September 2005.

SOMA ENVIRONMENTAL ENGINEERING, INC.

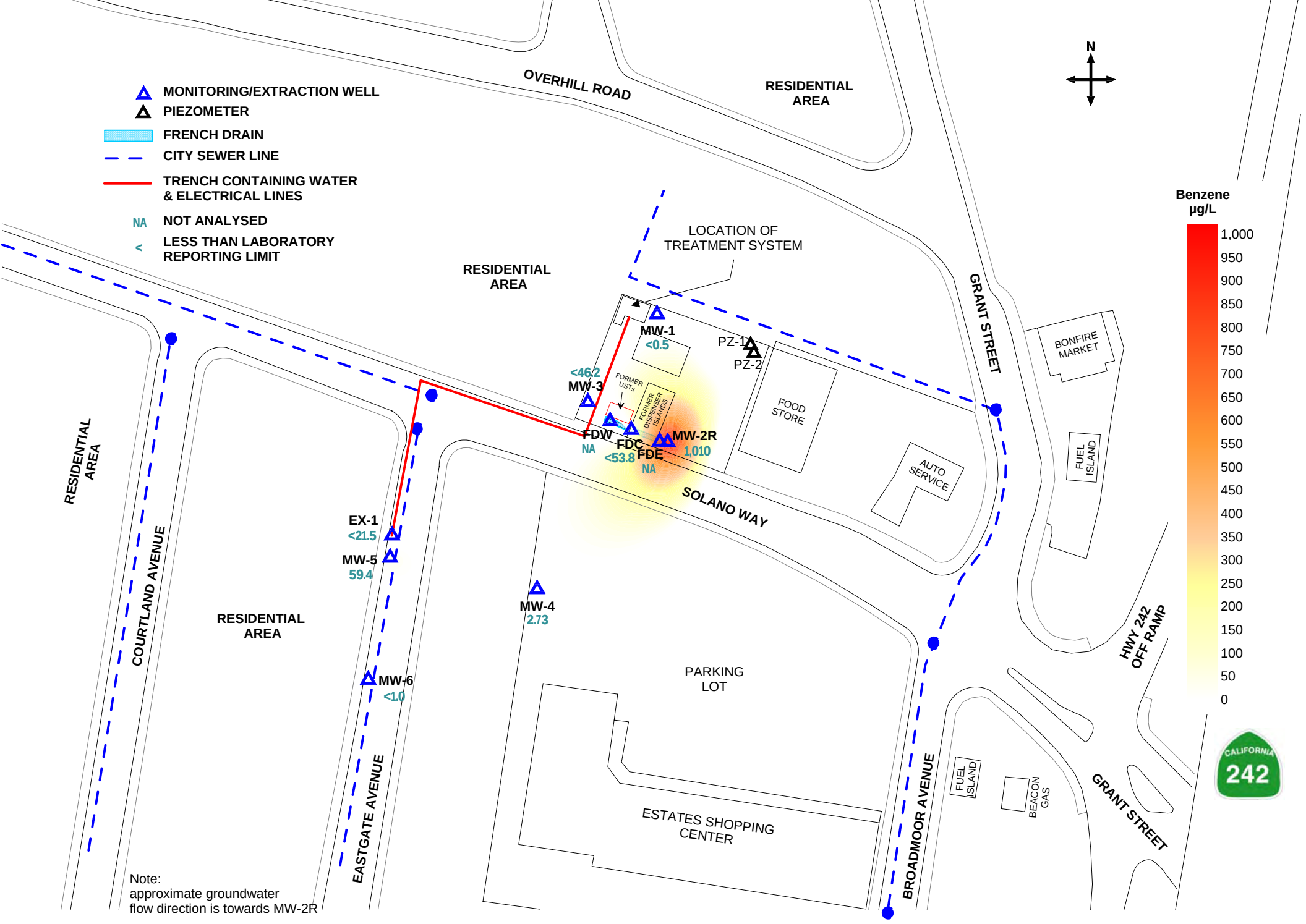


Figure 5: Contour map of Benzene concentrations in groundwater. September 2005.

SOMA ENVIRONMENTAL ENGINEERING, INC.

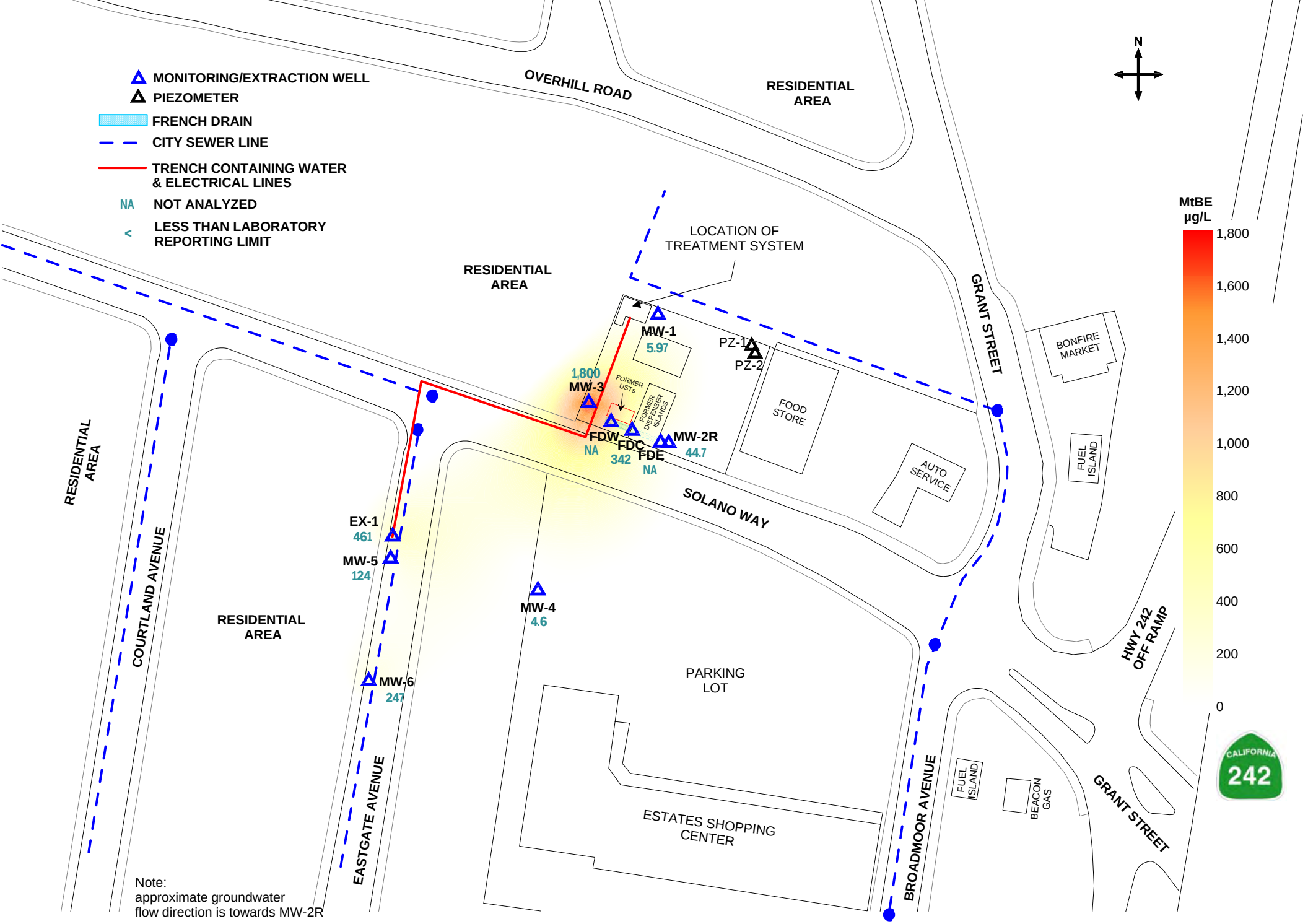


Figure 6: Contour map of MtBE concentrations in groundwater (EPA Method 8260B). September 2005.

SOMA ENVIRONMENTAL ENGINEERING, INC.

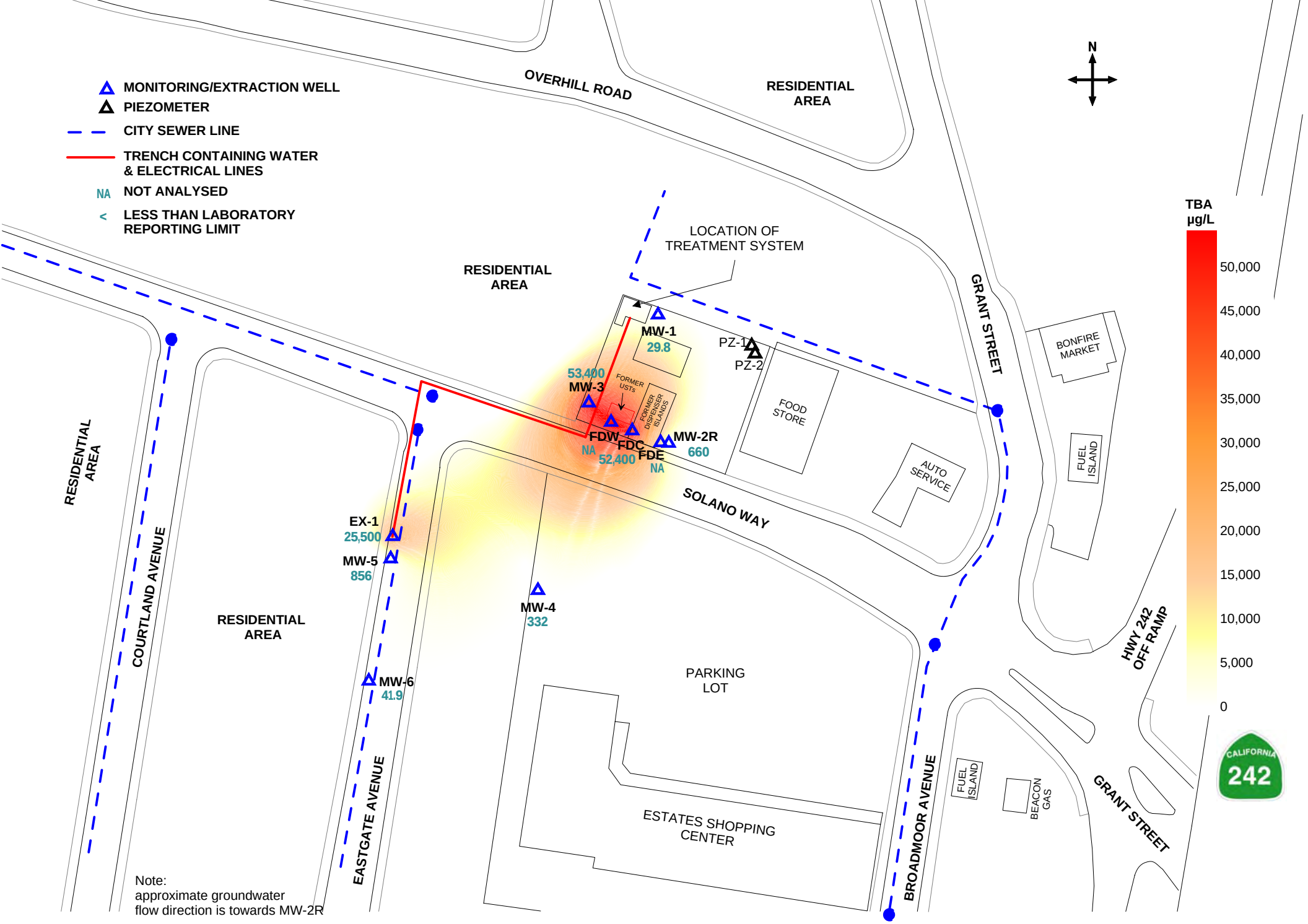
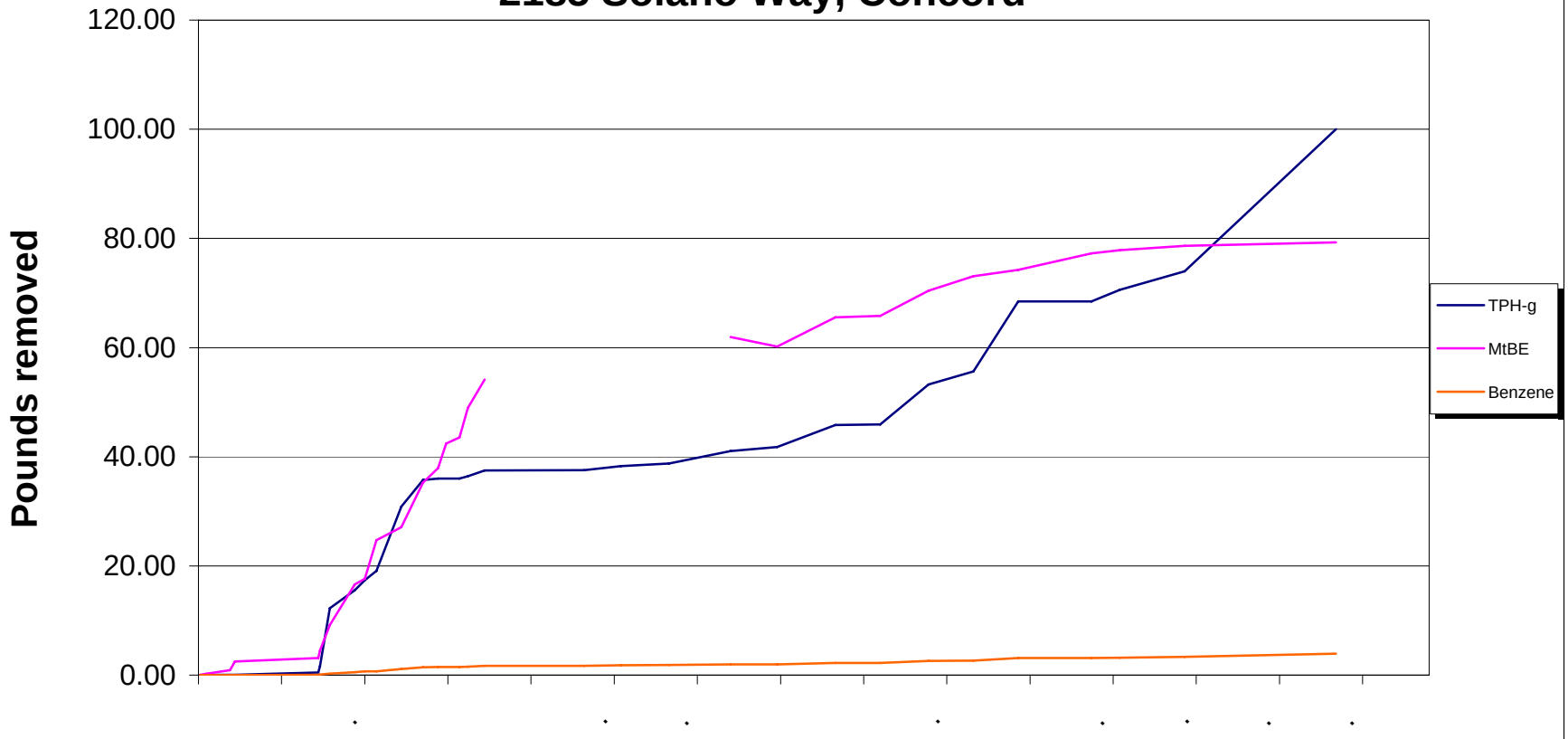


Figure 7: Contour map of TBA concentrations in groundwater.
September 2005.

ENVIRONMENTAL ENGINEERING, INC.

Figure 8
Cumulative Mass of TPH-g, MtBE, and Benzene Removed from Groundwater during Treatment System Operation
2185 Solano Way, Concord



Note: MtBE was not analyzed from April 2004 to Sept. 2004
(Based on the Sanitary District requirements.)

Appendix A

SOMA's Groundwater Monitoring Procedures

Field Activities

On September 15, 2005, SOMA's field crew conducted a groundwater monitoring event in accordance with the procedures and guidelines of the RWQCB. During this groundwater monitoring event six monitoring wells (on-site wells MW-1 to MW-3, and off-site wells MW-4 to MW-6) were monitored, as well as, the French drain risers. Depths to groundwater were recorded for the French drain risers and the off-site extraction well, EX-1. A grab groundwater sample was collected from the center riser of the French drain and extraction well EX-1. Figure 2 shows the locations of the monitoring wells and French drain risers.

The depth to groundwater in each monitoring well, French drain riser, and the extraction well were measured from the top of each casing to the nearest 0.01-foot using an electric sounder. The top of the casing elevation data and the depth to groundwater in each location was used to calculate the groundwater elevation at different locations.

The top of the casing elevations were based on the survey data measured on July 8, 2003. Kier & Wright Engineers Surveyors, Inc. of Pleasanton, California measured the top of casing elevations on all of the wells. The elevation data was based on a datum of 33.71 feet, NAVD88. The survey data is included in Appendix B. The survey was conducted to comply with EDF requests for electronic reporting of data to the State Water Resources Control Board (SWRCB) Database.

Prior to collecting samples, each well was purged using a battery operated 2-inch diameter pump (Model ES-60 DC).

During the purging activities, in order to obtain accurate measurements of groundwater parameters and especially to avoid the intrusion of oxygen from ambient air into the groundwater samples, field measurements were conducted in-situ (i.e., down-hole inside each monitoring well). The groundwater parameters such as DO, pH, temperature, EC, turbidity, and the ORP were measured in-situ using a Horiba, Model U-22 multi-parameter instrument. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

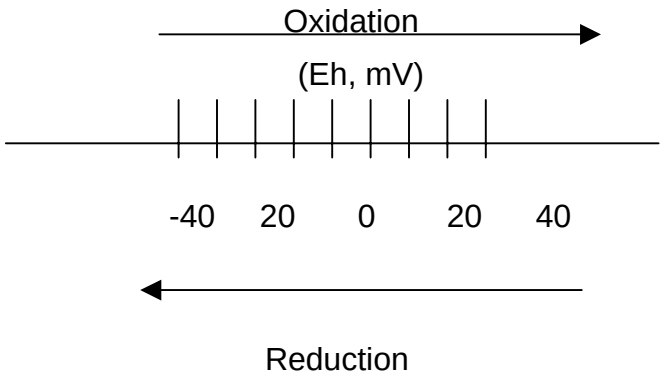
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater conductivity (EC) is directly related to the concentration of ions in solution.

There is a strong correlation between the turbidity level and the biological oxygen demand of natural water bodies. The main purpose for checking the turbidity

level is to provide a general overview of the extent of the suspended solids in the groundwater.

ORP (oxidation reduction potential) is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process a molecule or ion loses one or several electrons. In the reduction process a molecule or ion gains one or several electrons. The unit of the redox potential, is the Volt or m-Volt. The most important redox reaction in petroleum contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O_2 in water is low (9 mg/L at 25 ^{o}C and 11 mg/L at 5 ^{o}C), and because the rate of O_2 replenishment in subsurface environments is limited, DO can be entirely consumed, when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur, when all the dissolved O_2 in the groundwater is consumed, however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO^{-}_3, MnO_2, Fe $(OH)_3$, SO_4^{2-} and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process proceeds far enough, the environment may become so strongly reduced that the petroleum hydrocarbons may undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



The purging of the wells continued until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilized or three casing volumes were purged.

For sampling purposes, after purging, a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater sample was transferred into four 40-mL VOA vials, which had been prepared with HCl preservative. The vials were sealed properly to prevent the development of any air bubbles within the headspace area. After the

groundwater samples were collected, they were placed on ice in a cooler to maintain the samples at 4°C. On September 15, 2005, the samples were accompanied by a chain of custody (COC) form and delivered by SOMA's field crew to Pacific Analytical Laboratory in Alameda, California.

Laboratory Analysis

Pacific Analytical Laboratory, state certified laboratories, analyzed the groundwater samples for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), Methyl tertiary Butyl Ether (MtBE), gasoline oxygenates, and lead scavengers. TPH-g, BTEX, MtBE, gasoline oxygenates, and lead scavengers were all prepared using EPA Method 5030B and analyzed using EPA Method 8260B.

Appendix B

Table of Elevations & Coordinates on Monitoring Wells Measured by Kier Wright Civil Engineers Surveyors, Inc.

and

Field Measurements of Biodegradation Parameters & Physical and Chemical Properties of Groundwater Samples Collected During the Third Quarter 2005

DATE: 7/08/03
JOB# A02576-4

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL
2185 SOLANO WAY, CONCORD

WELL ID #	NORTHING (FT.) / LATITUDE (D.M.S.)	EASTING (FT.) / LONGITUDE (D.M.S.)	ELEVATION (FT.)	DESCRIPTION
EX-1	2186488.06	6116997.91	37.58	TOP 6" PVC, FELT ARROW N. SIDE
	N 37°59'22.78774"	W 122°02'35.02008"	37.46	RIM/FLUSH /W AC
FDC	2186577.28	6117215.79	41.29	TOP 4" PVC, PAINT DOT N. SIDE
	N 37°59'23.70515"	W 122°02'32.31711"	40.94	RIM, PUNCH N. SIDE
			40.54	GRAVEL
FDE	2186567.29	6117239.59	40.21	TOP 4" PVC, PAINT DOT N. SIDE
	N 37°59'23.61032"	W 122°02'32.01773"	41.05	RIM, PUNCH N. SIDE
			40.58	GRAVEL
FDW	2186584.35	6117198.00	40.18	TOP 4" PVC, PAINT DOT N. SIDE
	N 37°59'23.77219"	W 122°02'32.54076	40.84	RIM, PUNCH N. SIDE
			40.51	GRAVEL
MW-1	2186674.84	6117237.26	40.78	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'24.67303"	W 122°02'32.06903"	41.03	RIM, PUNCH N. SIDE
			41.02	AC
MW-2R	2186566.70	6117246.21	40.85	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'23.60555"	W 122°02'31.93486"	41.13	RIM, PUNCH N. SIDE
			40.85	GRAVEL
MW-3	2186600.54	6117178.94	40.29	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'23.92909"	W 122°02'32.78214"		NO BOX
			40.52	DIRT
MW-4	2186444.59	6117123.20	39.56	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'22.37842"	W 122°02'33.44620"	39.81	RIM, PUNCH N. SIDE
			40.09	AC
MW-5	2186469.33	6116994.39	38.14	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'22.60202"	W 122°02'35.06022"	38.39	RIM, PUNCH N. SIDE
			38.40	AC
MW-6	2186366.54	6116974.04	37.85	TOP 2" PVC, NOTCH N. SIDE
	N 37°59'21.5826"	W 122°02'35.29311"	38.15	RIM/FLUSH /W AC

ADDITIONAL POINTS

PT#	NORTHING (FT.)	EASTING (FT.)	ELEVATION (FT.)	DESCRIPTION
45	2186637.27	6117216.27	N/A	BL<

Kier & Wright Engineers Surveyors, Inc.
1233 Quarry Lane, Suite 145, Pleasanton, CA 94566
Phone (925) 249-6555,
Fax (925) 249-6563

DATE: 7/08/03
JOB# A02576-4

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL
2185 SOLANO WAY, CONCORD

46	2186622.14	6117255.86	N/A	BL<
47	2186646.63	6117265.13	N/A	BL<
33	2186578.43	6117165.64	39.15	TC DWY
34	2186567.19	6117194.76	39.45	TC DWY
35	2186542.61	6117258.10	39.87	TC DWY
36	2186531.23	6117287.30	40.03	TC DWY
42	2186571.14	6117211.90	N/A	CANOPY <
43	2186562.21	6117234.13	N/A	CANOPY <
44	2186608.15	6117252.56	N/A	CANOPY <

BENCH MARK: NGS Bench mark No.BM 3137

From the intersection of I-680 and Concord Ave. in Concord, go east on Concord Ave. 0.85 miles to a bridge over Walnut Creek and the station on the left. Station is at the east end of the bridge, on the north side of Concord Ave. station is 26 feet west of the east end of the bridge and 1.3 feet north of the north edge of pavement of Concord Ave. Monument is 2.5" brass disk set flush in the concrete and stamped "Contra Costa County Benchmark 3137".

Elevation =33.71 NAVD88 Datum

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum.

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW 1	**Project No.:**	2461
Casing Diameter:	2 inch	**Address:**	2185 Solano Way
Depth of Well:	20.65 ft		Concord, CA
Top of Casing Elevation:	40.78 ft	**Date:**	September 15, 2005
Depth to Groundwater:	10.87 ft	**Sampler:**	Mehran Nowroozi
Groundwater Elevation:	29.91 ft		John Lohman
Water Column Height:	9.78 ft		
Purged Volume:	12 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: No ☑ Yes ☐ Describe _____

Sheen: No ☑ Yes ☐ Describe _____

Odor: No ☐ Yes ☑ Describe petrol

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe^{+2} mg/L	NO_3^- mg/L	SO_4^{-2} mg/L
12:51 PM	START		PURGE							
12:55PM	3	3.11	7.01	20.51	1560	612	-152			
1:00PM	6	1.89	6.93	20.18	1580	466	-259			
1:03PM	9	1.57	6.95	20.12	1590	374	-284			
1:06 PM	12	1.36	6.93	20.07	1590	317	-307			
1:10 PM	SAMPLES							0	6.5	80

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW2R	**Project No.:**	2461
Casing Diameter:	2 inch	**Address:**	2185 Solano Way
Depth of Well:	19.70 ft		Concord, CA
Top of Casing Elevation:	40.85 ft	**Date:**	September 15, 2005
Depth to Groundwater:	18.78 ft	**Sampler:**	Mehran Nowroozi
Groundwater Elevation:	22.07 ft		John Lohman
Water Column Height:	.92 ft		
Purged Volume:	~~1~~ gallons		

Purging Method: Bailer ☒ Pump ☐

Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☒ **Describe** gray

Sheen: No ☐ Yes ☒ **Describe** rainbow

Odor: No ☐ Yes ☒ **Describe** strong petrol

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe^{+2} mg/L	NO_3^- mg/L	SO_4^{-2} mg/L
2:05 PM	SAMPLES									

Notes: not enough water, just enough for sample
no field measurements taken
to silty to obtain accurate measurements for ferrous iron
nitrate, sulfate

ENVIRONMENTAL ENGINEERING, INC

Well No.: MW3
Casing Diameter: 2 inch
Depth of Well: 20.70 ft
Top of Casing Elevation: 40.29 ft
Depth to Groundwater: 12.35 ft
Groundwater Elevation: 27.94 ft
Water Column Height: 8.35 ft
Purged Volume: 9 gallons

Project No.: 2461
Address: 2185 Solano Way
Concord, CA
Date: September 15, 2005
Sampler: Mehran Nowroozi
John Lohman

Purging Method: Bailer ☐ Pump ☒

Sampling Method: Bailer ☒ Pump ☐

Color: No ☒ Yes ☐ Describe _____

Sheen: No ☒ Yes ☐ Describe _____

Odor: No ☒ Yes ☐ Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe^{+2} mg/L	NO_3^- mg/L	SO_4^{-2} mg/L
1:24 PM	START PURGE									
1:27 PM	3	3.13	6.81	20.54	1470	661	-116			
1:31 PM	6	1.94	6.78	20.58	1480	636	-137			
1:35 PM	9	1.51	6.79	20.50	1470	576	-142			
1:38 PM	SAMPLES							.77	0	2.1

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.: MW 4
Casing Diameter: 2 inch
Depth of Well: 21.03 ft
Top of Casing Elevation: 39.56 ft
Depth to Groundwater: 11.50 ft
Groundwater Elevation: 28.06 ft
Water Column Height: 9.53 ft
Purged Volume: 12 gallons

Project No.: 2461
Address: 2185 Solano Way
Concord, CA
Date: September 15, 2005
Sampler: Mehran Nowroozi
John Lohman

Purging Method: Bailer ☐ Pump ☒

Sampling Method: Bailer ☒ Pump ☐

Color: No ☒ Yes ☐ Describe

Sheen: No ☒ Yes ☐ Describe

Odor: No ☒ Yes ☐ Describe

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe^{+2} mg/L	NO_3^- mg/L	SO_4^{-2} mg/L
12:10 PM	START PURGE									
12:13 PM	3	3.34	6.70	24.29	1480	392	-60			
12:20 PM	8	2.44	6.65	24.09	1470	400	-95			
12:26 PM	12	2.14	6.68	24.04	1450	388	-104			
12:30 PM	SAMPLES							2.0	0	6

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.: MW5
Casing Diameter: 2 inch
Depth of Well: 20.90 ft
Top of Casing Elevation: 38.14 ft
Depth to Groundwater: 11.29 ft
Groundwater Elevation: 26.85 ft
Water Column Height: 9.61 ft
Purged Volume: 9 gallons

Project No.: 2461
Address: 2185 Solano Way
Concord, CA
Date: September 15, 2005
Sampler: Mehran Nowroozi
John Lohman

Purging Method: Bailer ☐ Pump ☒

Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☒ Describe whitish

Sheen: No ☒ Yes ☐ Describe

Odor: No ☐ Yes ☒ Describe slight petrol

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe^{+2} mg/L	NO_3^- mg/L	SO_4^{-2} mg/L
10:44	START PURGE									
10:47	3	3.66	6.69	21.15	1500	999	-53			
10:50	6	2.89	6.63	21.10	1500	999	-75			
10:55	9	2.17	6.63	21.06	1450	999	-95			
11:00 AM	SAMPLES							.94	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.: MW6
Casing Diameter: 2 inch
Depth of Well: 20.70 ft
Top of Casing Elevation: 37.85 ft
Depth to Groundwater: 10.65 ft
Groundwater Elevation: 27.20 ft
Water Column Height: 10.05 ft
Purged Volume: 12 gallons

Project No.: 2461
Address: 2185 Solano Way
Concord, CA
Date: September 15, 2005
Sampler: Mehran Nowroozi
John Lohman

Purging Method: Bailer ☐ Pump ☒

Sampling Method: Bailer ☑ Pump ☐

Color: No ☒ Yes ☐ Describe

Sheen: No ☑ Yes ☐ Describe

Odor: No ☒ Yes ☐ Describe

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe^{+2} mg/L	NO_3^- mg/L	SO_4^{-2} mg/L
10:10 AM	START PURGE									
10:12 AM	3	6.04	7.36	22.09	1350	457	149			
10:15 AM	6	4.21	6.93	21.94	1350	387	150			
10:18 AM	9	3.46	6.76	21.62	1340	392	149			
10:21 AM	12	3.08	6.71	21.67	1350	411	149			
10:23 AM	SAMPLES							.77	<	16

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.: EX1
Casing Diameter: _____ inch
Depth of Well: _____ ft
Top of Casing Elevation: 37.58 ft
Depth to Groundwater: 14.46 ft
Groundwater Elevation: 23.12 ft
Water Column Height: _____ ft
Purged Volume: _____ gallons

Project No.: 2461
Address: 2185 Solano Way
Concord, CA
Date: September 15, 2005
Sampler: Mehran Nowroozi
John Lohman

Purging Method: Bailer ☐ Pump ☐ not purged

Sampling Method: Bailer ☐ Pump ☐

Color: No ☐ Yes ☐ Describe _____

Sheen: No ☐ Yes ☐ Describe _____

Odor: No ☐ Yes ☐ Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe^{+2} mg/L	NO_3^- mg/L	SO_4^{-2} mg/L
11:20 Am	SAMPLES							.32	0	0

Notes:

ENVIRONMENTAL ENGINEERING, INC

Well No.: FDC
Casing Diameter: _____ inch
Depth of Well: _____ ft
Top of Casing Elevation: 41.29 ft
Depth to Groundwater: 14.10 ft
Groundwater Elevation: 27.19 ft
Water Column Height: _____ ft
Purged Volume: _____ gallons

Project No.: 2461
Address: 2185 Solano Way
Concord, CA
Date: September 15, 2005
Sampler: Mehran Nowroozi
John Lohman

Purging Method: Bailer ☐ Pump ☐ not purged

Sampling Method: Bailer ☒ Pump ☐

Color: No ☐ Yes ☐ Describe _____

Sheen: No ☐ Yes ☐ Describe _____

Odor: No ☐ Yes ☐ Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe^{+2} mg/L	NO_3^- mg/L	SO_4^{-2} mg/L
2:35 PM	SAMPLES							3.30	0	80

Notes:

Appendix C

Laboratory Report and Chain Of Custody Form
for the
Third Quarter 2005 Monitoring Event

PAL Pacific Analytical Laboratory
851 West Midway Ave. Suite 201
Alameda, CA 94501
Phone (510) 864-0364

21 September 2005

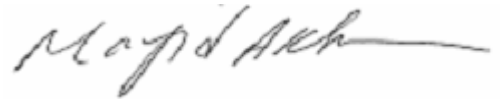
Mansour Sepehr
SOMA Environmental Engineering Inc.
6620 Owens Drive, Suite A
Pleasanton, CA 94588

RE: 2185 Solano Way

Work Order Number: 5090007

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,



Maiid Akhavan
Laboratory Director

CHAIN OF CUSTODY FORM

PAL Pacific Analytical Laboratory
851 West Midway Ave., Suite 201B
Alameda, CA 94501
510-864-0364 Telephone
510-864-0365 Fax

PAL
Login# 5090007

Project No: 2461	Sampler: John Lohman / ~~Eric Jennings~~ Mehran Nowrozi	Analyses/Method
Project Name: 2185 Solano Way, Concord	Report To: Joyce Bobek	
Project P.O.: --------	Company: SOMA Environmental Engineering, Inc.	
Turnaround Time: Standard	Tel: 925-244-6600 Fax: 925-244-6601	

Lab No.	Sample ID	Sampling Date/Time: Date	Time	Matrix: Soil	Water	Waste	# of Containers	Preservatives: HCL	H_2So4	HNO_3	ICE	Field Notes	TPHg, BTEX 8260B	Gasoline Oxygenates Pb Scavengers
	MW-1	9/15/05	1:10 pm		X		4 5 VOAs	X			X	Grab Sample	X	X
	MW-2R		2:05 pm		X		5 VOAs	X			X	Grab Sample	X	X
	MW-3		1:36 PM		X		5 VOAs	X			X	Grab Sample	X	X
	MW-4		12:30 pm		X		5 VOAs	X			X	Grab Sample	X	X
	MW-5		11:00 AM		X		5 VOAs	X			X	Grab Sample	X	X
	MW-6		10:23 Am		X		5 VOAs	X			X	Grab Sample	X	X
	FDC		2:35 PM		X		5 VOAs	X			x	Grab Sample	X	X
	EX-1		11:20 Am		X		5 VOAs	X			x	Grab Sample	X	X

Sampler Remarks:	Relinquished by:	Date/Time:	Received by:	Date/Time:
EDF OUTPUT REQUIRED Ethanol		9/15/05 4:00 PM	James Zuniga	9/15/05 4:00 PM

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5090007-01	Water	15-Sep-05 13:10	15-Sep-05 16:12
MW-2R	5090007-02	Water	15-Sep-05 14:05	15-Sep-05 16:12
MW-3	5090007-03	Water	15-Sep-05 13:38	15-Sep-05 16:12
MW-4	5090007-04	Water	15-Sep-05 12:30	15-Sep-05 16:12
MW-5	5090007-05	Water	15-Sep-05 11:00	15-Sep-05 16:12
MW-6	5090007-06	Water	15-Sep-05 10:23	15-Sep-05 16:12
FDC	5090007-07	Water	15-Sep-05 14:35	15-Sep-05 16:12
EX-1	5090007-08	Water	15-Sep-05 11:20	15-Sep-05 16:12

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5090007-01) Water Sampled: 15-Sep-05 13:10 Received: 15-Sep-05 16:12									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BI51901	15-Sep-05	16-Sep-05	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	**5.97**	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	**29.8**	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.2 %*		*70-130*		"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*70-130*		"	"	"	
Surrogate: Perdeuterotoluene		*96.4 %*		*70-130*		"	"	"	
MW-2R (5090007-02RE1) Water Sampled: 15-Sep-05 14:05 Received: 15-Sep-05 16:12									
Gasoline (C6-C12)	**32400**	1080	ug/l	21.5	BI51901	15-Sep-05	16-Sep-05	EPA 8260B	
Benzene	**1010**	10.8	"	"	"	"	"	"	
Ethylbenzene	**1230**	10.8	"	"	"	"	"	"	
m&p-Xylene	**2390**	21.5	"	"	"	"	"	"	
o-xylene	**1660**	10.8	"	"	"	"	"	"	
Toluene	**3110**	43.0	"	"	"	"	"	"	
MTBE	**44.7**	10.8	"	"	"	"	"	"	
DIPE	ND	10.8	"	"	"	"	"	"	
ETBE	ND	10.8	"	"	"	"	"	"	
TAME	ND	43.0	"	"	"	"	"	"	
TBA	**660**	215	"	"	"	"	"	"	
1,2-dichloroethane	ND	10.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10.8	"	"	"	"	"	"	
Ethanol	ND	21500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*70-130*		"	"	"	

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2R (5090007-02RE1) Water Sampled: 15-Sep-05 14:05 Received: 15-Sep-05 16:12									
Surrogate: Dibromofluoromethane		*101 %*		*70-130*	*BI51901*	*15-Sep-05*	*16-Sep-05*	*EPA 8260B*	
Surrogate: Perdeuterotoluene		*97.4 %*		*70-130*	"	"	"	"	
MW-3 (5090007-03RE2) Water Sampled: 15-Sep-05 13:38 Received: 15-Sep-05 16:12									
Gasoline (C6-C12)	ND	4620	ug/l	92.5	BI51901	15-Sep-05	19-Sep-05	EPA 8260B	
Benzene	ND	46.2	"	"	"	"	"	"	
Ethylbenzene	ND	46.2	"	"	"	"	"	"	
m&p-Xylene	ND	92.5	"	"	"	"	"	"	
o-xylene	ND	46.2	"	"	"	"	"	"	
Toluene	ND	185	"	"	"	"	"	"	
MTBE	**1800**	46.2	"	"	"	"	"	"	
DIPE	ND	46.2	"	"	"	"	"	"	
ETBE	ND	46.2	"	"	"	"	"	"	
TAME	ND	185	"	"	"	"	"	"	
TBA	**53400**	925	"	"	"	"	"	"	
1,2-dichloroethane	ND	46.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	46.2	"	"	"	"	"	"	
Ethanol	ND	92500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.8 %*		*70-130*	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*95.0 %*		*70-130*	"	"	"	"	
MW-4 (5090007-04) Water Sampled: 15-Sep-05 12:30 Received: 15-Sep-05 16:12									
Gasoline (C6-C12)	**1690**	50.0	ug/l	1	BI51901	15-Sep-05	16-Sep-05	EPA 8260B	
Benzene	**2.73**	0.500	"	"	"	"	"	"	
Ethylbenzene	**1.88**	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	**4.60**	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	**332**	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (5090007-04) Water Sampled: 15-Sep-05 12:30 Received: 15-Sep-05 16:12									
Surrogate: 4-Bromofluorobenzene		*86.8 %*		*70-130*	*BI51901*	*15-Sep-05*	*16-Sep-05*	*EPA 8260B*	
Surrogate: Dibromofluoromethane		*97.8 %*		*70-130*	*"*	*"*	*"*	*"*	
Surrogate: Perdeuterotoluene		*98.6 %*		*70-130*	*"*	*"*	*"*	*"*	
MW-5 (5090007-05RE1) Water Sampled: 15-Sep-05 11:00 Received: 15-Sep-05 16:12									
Gasoline (C6-C12)	**10200**	50.0	ug/l	1	BI51901	15-Sep-05	16-Sep-05	EPA 8260B	
Benzene	**59.4**	0.500	"	"	"	"	"	"	
Ethylbenzene	**14.4**	0.500	"	"	"	"	"	"	
m&p-Xylene	**3.43**	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	**4.34**	2.00	"	"	"	"	"	"	
MTBE	**124**	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
TBA	**856**	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*70-130*	*"*	*"*	*"*	*"*	
Surrogate: Dibromofluoromethane		*91.8 %*		*70-130*	*"*	*"*	*"*	*"*	
Surrogate: Perdeuterotoluene		*105 %*		*70-130*	*"*	*"*	*"*	*"*	
MW-6 (5090007-06) Water Sampled: 15-Sep-05 10:23 Received: 15-Sep-05 16:12									
Gasoline (C6-C12)	ND	100	ug/l	2	BI51901	15-Sep-05	16-Sep-05	EPA 8260B	
Benzene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	4.00	"	"	"	"	"	"	
MTBE	**247**	1.00	"	"	"	"	"	"	
DIPE	ND	1.00	"	"	"	"	"	"	
ETBE	ND	1.00	"	"	"	"	"	"	
TAME	ND	4.00	"	"	"	"	"	"	
TBA	**41.9**	20.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	"	

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (5090007-06) Water Sampled: 15-Sep-05 10:23 Received: 15-Sep-05 16:12									
Ethanol	ND	2000	ug/l	2	BI51901	15-Sep-05	16-Sep-05	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*83.8 %*		*70-130*		"	"	"	"
Surrogate: Dibromofluoromethane		*107 %*		*70-130*		"	"	"	"
Surrogate: Perdeuterotoluene		*94.0 %*		*70-130*		"	"	"	"
FDC (5090007-07RE3) Water Sampled: 15-Sep-05 14:35 Received: 15-Sep-05 16:12									
Gasoline (C6-C12)	ND	5380	ug/l	107.5	BI51901	15-Sep-05	20-Sep-05	EPA 8260B	
Benzene	ND	53.8	"	"	"	"	"	"	
Ethylbenzene	ND	53.8	"	"	"	"	"	"	
m&p-Xylene	ND	108	"	"	"	"	"	"	
o-xylene	ND	53.8	"	"	"	"	"	"	
Toluene	ND	215	"	"	"	"	"	"	
MTBE	**342**	53.8	"	"	"	"	"	"	
DIPE	ND	53.8	"	"	"	"	"	"	
ETBE	ND	53.8	"	"	"	"	"	"	
TAME	ND	215	"	"	"	"	"	"	
TBA	**52400**	1080	"	"	"	"	"	"	
1,2-dichloroethane	ND	53.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	53.8	"	"	"	"	"	"	
Ethanol	ND	108000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.6 %*		*70-130*		"	"	"	"
Surrogate: Dibromofluoromethane		*110 %*		*70-130*		"	"	"	"
Surrogate: Perdeuterotoluene		*96.0 %*		*70-130*		"	"	"	"
EX-1 (5090007-08RE2) Water Sampled: 15-Sep-05 11:20 Received: 15-Sep-05 16:12									
Gasoline (C6-C12)	ND	2150	ug/l	43	BI51901	15-Sep-05	19-Sep-05	EPA 8260B	
Benzene	ND	21.5	"	"	"	"	"	"	
Ethylbenzene	ND	21.5	"	"	"	"	"	"	
m&p-Xylene	ND	43.0	"	"	"	"	"	"	
o-xylene	ND	21.5	"	"	"	"	"	"	
Toluene	ND	86.0	"	"	"	"	"	"	
MTBE	**461**	21.5	"	"	"	"	"	"	
DIPE	ND	21.5	"	"	"	"	"	"	
ETBE	ND	21.5	"	"	"	"	"	"	
TAME	ND	86.0	"	"	"	"	"	"	
TBA	**25500**	430	"	"	"	"	"	"	
1,2-dichloroethane	ND	21.5	"	"	"	"	"	"	

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EX-1 (5090007-08RE2) Water Sampled: 15-Sep-05 11:20 Received: 15-Sep-05 16:12									
1,2-Dibromoethane (EDB)	ND	21.5	ug/l	43	BI51901	15-Sep-05	19-Sep-05	EPA 8260B	
Ethanol	ND	43000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.4 %*		*70-130*	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*70-130*	"	"	"	"	
Surrogate: Perdeuterotoluene		*96.0 %*		*70-130*	"	"	"	"	

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI51901 - EPA 5030 Water MS										
Blank (BI51901-BLK1)				Prepared & Analyzed: 19-Sep-05						
Surrogate: 4-Bromofluorobenzene	*42.5*		*ug/l*	*50.0*		*85.0*	*70-130*			
Surrogate: Dibromofluoromethane	*52.1*		*"*	*50.0*		*104*	*70-130*			
Surrogate: Perdeuterotoluene	*47.4*		*"*	*50.0*		*94.8*	*70-130*			
MTBE	ND	0.500	"							
DIPE	ND	0.500	"							
ETBE	ND	0.500	"							
TAME	ND	2.00	"							
Gasoline (C6-C12)	ND	50.0	"							
TBA	ND	10.0	"							
1,2-dichloroethane	ND	0.500	"							
1,2-Dibromoethane (EDB)	ND	0.500	"							
Ethanol	ND	1000	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m&p-Xylene	ND	1.00	"							
o-xylene	ND	0.500	"							
Toluene	ND	2.00	"							
LCS (BI51901-BS1)				Prepared & Analyzed: 19-Sep-05						
Surrogate: 4-Bromofluorobenzene	*46.3*		*ug/l*	*50.0*		*92.6*	*70-130*			
Surrogate: Dibromofluoromethane	*49.0*		*"*	*50.0*		*98.0*	*70-130*			
Surrogate: Perdeuterotoluene	*45.1*		*"*	*50.0*		*90.2*	*70-130*			
MTBE	118	0.500	"	100		118	70-130			
ETBE	123	0.500	"	100		123	70-130			
TAME	113	2.00	"	100		113	70-130			
Gasoline (C6-C12)	1950	50.0	"	2000		97.5	70-130			
TBA	583	10.0	"	500		117	70-130			
Benzene	106	0.500	"	100		106	70-130			
Toluene	111	2.00	"	100		111	70-130			

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

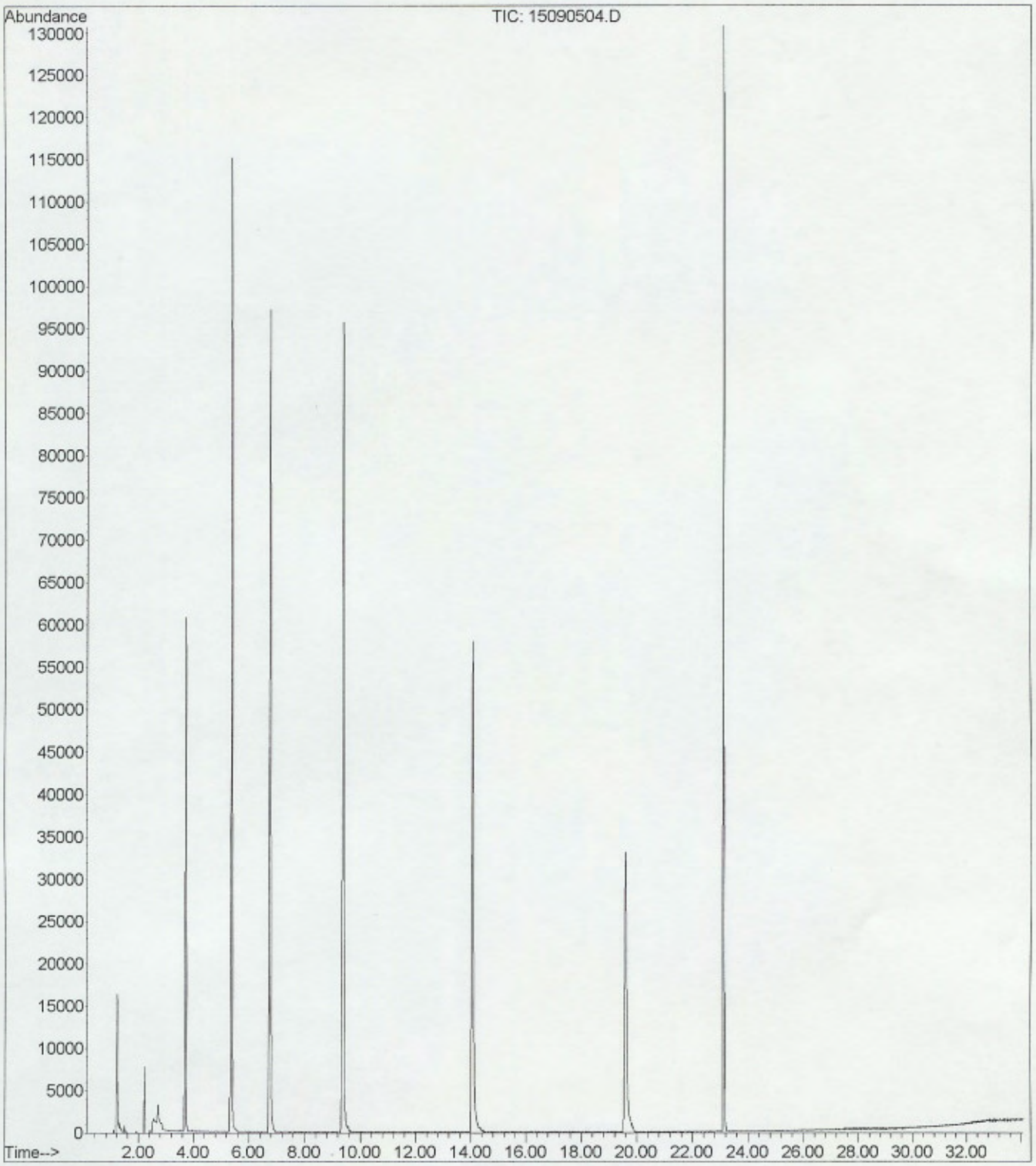
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI51901 - EPA 5030 Water MS										
LCS Dup (BI51901-BSD1)				Prepared & Analyzed: 19-Sep-05						
Surrogate: 4-Bromofluorobenzene	*47.7*		*ug/l*	*50.0*		*95.4*	*70-130*			
Surrogate: Dibromofluoromethane	*49.6*		*"*	*50.0*		*99.2*	*70-130*			
Surrogate: Perdeuterotoluene	*44.1*		*"*	*50.0*		*88.2*	*70-130*			
MTBE	116	0.500	"	100		116	70-130	1.71	20	
ETBE	116	0.500	"	100		116	70-130	5.86	20	
TAME	108	2.00	"	100		108	70-130	4.52	20	
TBA	583	10.0	"	500		117	70-130	0.00	20	
Gasoline (C6-C12)	1640	50.0	"	2000		82.0	70-130	17.3	20	
Benzene	106	0.500	"	100		106	70-130	0.00	20	
Toluene	111	2.00	"	100		111	70-130	0.00	20	

SOMA Environmental Engineering Inc.	Project: 2185 Solano Way	
6620 Owens Drive, Suite A	Project Number: 2461	**Reported:**
Pleasanton CA, 94588	Project Manager: Mansour Sepehr	21-Sep-05 10:16

Notes and Definitions

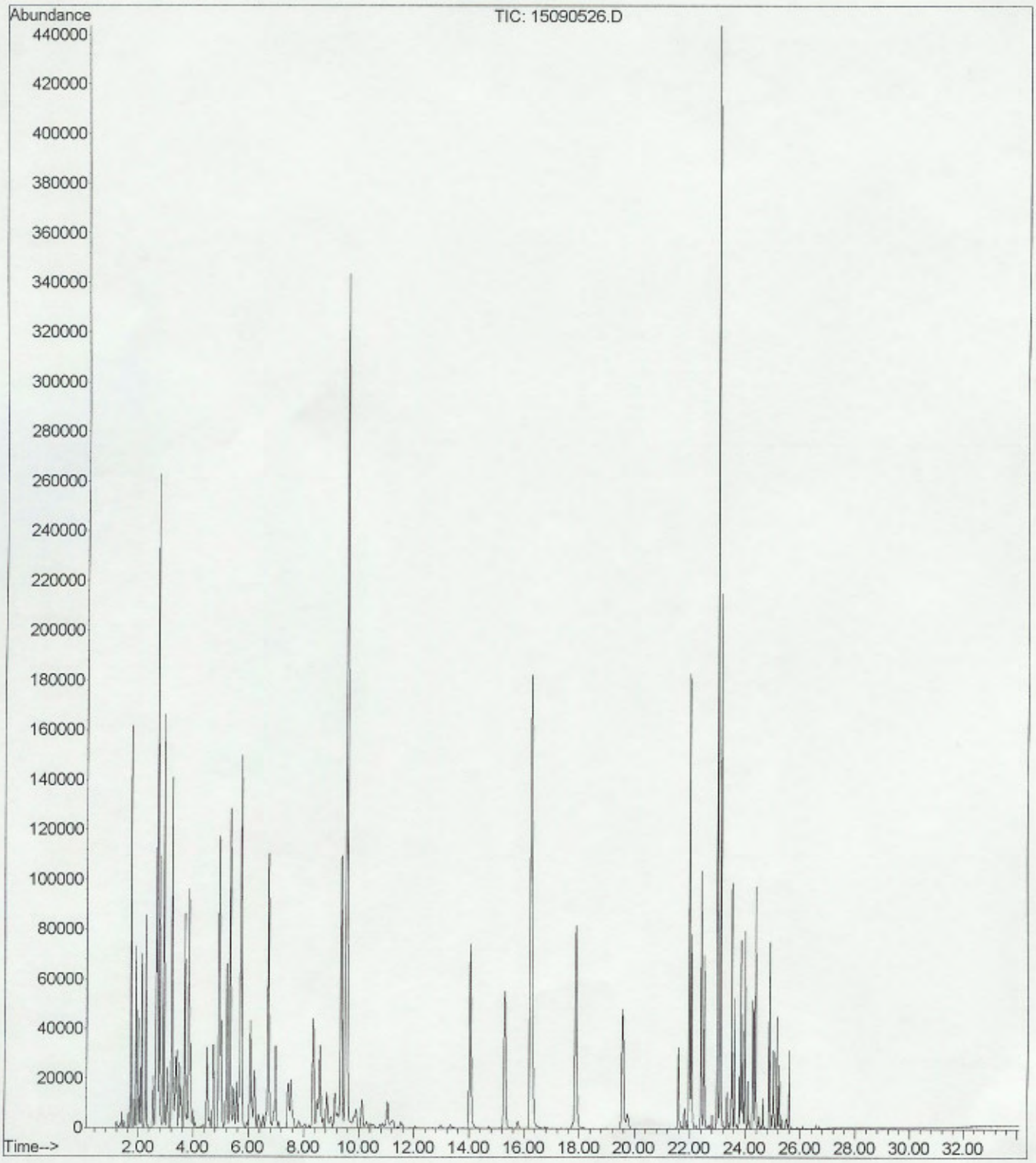
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

File :C:\MSDChem\1\DATA\2005-Sep-15-0948.b\15090504.D
Operator :
Acquired : 15 Sep 2005 3:29 pm using AcqMethod VOCOXY.M
Instrument : PAL GCMS
Sample Name: BI51901-BLK1
Misc Info :
Vial Number: 4



File : C:\MSDChem\1\DATA\2005-Sep-15-0948.b\15090502.D
Operator :
Acquired : 15 Sep 2005 1:55 pm using AcqMethod VOCOXY.M
Instrument : PAL GCMS
Sample Name: BI51901-BS1@voc
Misc Info :
Vial Number: 2

File :C:\MSDChem\1\DATA\2005-Sep-15-0948.b\15090526.D
Operator :
Acquired : 16 Sep 2005 11:25 am using AcqMethod VOCOXY.M
Instrument : PAL GCMS
Sample Name: BI51901-BS1
Misc Info :
Vial Number: 26



Appendix D

Central Contra Costa Sanitary District

Special Discharge Permit

CENTRAL CONTRA COSTA SANITARY DISTRICT

Class III Industrial User Permit

Industrial User Name:	Shimoff & LAGER, c/o Bert Horn (former Beacon Station)	
Site Address:	2185 Solano Way, Concord, California 94519	
Mailing Address:	2680 Bishop Drive, Suite 203, San Ramon, CA 94583	
Permit Issued: June 1, 2005 **Permit Renewal: May 31, 2007**	**Permit Fee through May 31, 2006** **Permit Fee through May 31, 2007**	**$ 351.00** **to be billed**

Certification

- The Industrial User agrees to comply with Title 10 of the District Code and the terms and conditions of this permit.
- The Industrial User understands that this permit may be revoked and permission to discharge may be denied.
- The Industrial User shall be liable for all damages, direct and consequential, caused by violating the terms and conditions of this permit.

"I am an authorized representative of the Industrial User as specified in CCCSD Code Title 10.04.020 (B). I have authority to commit resources necessary to achieve and maintain compliance with the conditions of this permit. I have reviewed this permit document and understand the requirements contained herein."

Company Officer:

Name: Mansour Sepehr

Title: President

Signature: [signature]

Date: 5-3-05

Definition of Authorized Representative of Industrial User: An authorized representative of an industrial user may be: (1) the principal executive officer, if the industrial user is a corporation; (2) general partner or proprietor if the industrial user is a partnership or proprietorship, respectively; (3) duly authorized representative of the individual designated above if such representative is responsible for the overall operation of the facilities from which the discharge originates and if such representative is identified in writing by the individual designated in (1) or (2) above.

Authorization

The Industrial User is authorized to discharge wastewater to the sanitary sewer, subject to the Industrial User's compliance with Title 10 of the District Code, 40CFR, and the terms and conditions of this permit. This authorization is conditional on the Industrial User signing and returning the above certification to the District's Source Control Section.

Central Contra Costa Sanitary District

Name: Timothy L. Potter

Title: Source Control Program Superintendent

Signature: [signature]

Date: 4/28/05

Appendix E

Chain of Custody Form

and

Laboratory Report of the Treatment System Samples

Sequoia Analytical

819 Striker Ave Ste 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

27 September, 2005

Tony Perini
Soma Environmental Eng.
6620 Owens Drive, Suite A
Pleasanton, CA. 94588

RE: N/A
Work Order: S509179

Enclosed are the results of analyses for samples received by the laboratory on 09/09/05 11:45. If you ha any questions concerning this report, please feel free to contact me.

Sincerely,

Tami Lindsay

Tami Lindsay
Project Manager

CA ELAP Certificate #1624

Sequoia Analytical

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FAX (916) 921-0100
www.sequoialabs.com

Soma Environmental Eng.	Project:N/A	S509179
6620 Owens Drive, Suite A	Project Number:2463-Solano Wy, Concord	**Reported:**
Pleasanton CA., 94588	Project Manager:Tony Perini	09/27/05 13:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	S509179-01	Water	09/09/05 11:00	09/09/05 11:45
Influent	S509179-02	Water	09/09/05 11:05	09/09/05 11:45

Sequoia Analytical

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Soma Environmental Eng.	Project:N/A	S509179
6620 Owens Drive, Suite A	Project Number:2463-Solano Wy, Concord	**Reported:**
Pleasanton CA., 94588	Project Manager:Tony Perini	09/27/05 13:36

Purgeable Hydrocarbons by EPA 8015B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (S509179-01) Water Sampled: 09/09/05 11:00 Received: 09/09/05 11:45									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5090155	09/13/05	09/13/05	EPA 8015B-VOA	
Surrogate: 4-BFB (FID)		*70 %*	*60-140*		"	"	"	"	
Surrogate: a,a,a-TFT (PID)		*81 %*	*60-140*		"	"	"	"	
Influent (S509179-02) Water Sampled: 09/09/05 11:05 Received: 09/09/05 11:45									
Gasoline Range Organics (C4-C12)	**16000**	2500	ug/l	50	5090155	09/13/05	09/13/05	EPA 8015B-VOA	
Surrogate: 4-BFB (FID)		*96 %*	*60-140*		"	"	"	"	
Surrogate: a,a,a-TFT (PID)		*85 %*	*60-140*		"	"	"	"	

Sequoia Analytical

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Soma Environmental Eng. 6620 Owens Drive, Suite A Pleasanton CA., 94588	Project:N/A Project Number:2463-Solano Wy, Concord Project Manager:Tony Perini	S509179 **Reported:** 09/27/05 13:36

Extractable Hydrocarbons by EPA 8015B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (S509179-01) Water Sampled: 09/09/05 11:00 Received: 09/09/05 11:45									
Diesel Range Organics (C10-C28)	ND	50	ug/l	1	5090131	09/12/05	09/12/05	EPA 8015B-SVOA	
Surrogate: Octacosane		*58 %*	*50-150*		"	"	"	"	
Influent (S509179-02) Water Sampled: 09/09/05 11:05 Received: 09/09/05 11:45									
Diesel Range Organics (C10-C28)	**4000**	100	ug/l	2	5090131	09/12/05	09/13/05	EPA 8015B-SVOA	
Surrogate: Octacosane		*102 %*	*50-150*		"	"	"	"	

Sequoia Analytical

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Soma Environmental Eng.	Project:N/A	S509179
6620 Owens Drive, Suite A	Project Number:2463-Solano Wy, Concord	**Reported:**
Pleasanton CA., 94588	Project Manager:Tony Perini	09/27/05 13:36

MTBE by EPA 8021B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (S509179-01) Water	**Sampled: 09/09/05 11:00**	**Received: 09/09/05 11:45**							
Methyl tert-butyl ether	ND	2.0	ug/l	1	5090155	09/13/05	09/13/05	EPA 8021B	
Surrogate: a,a,a-TFT (PID)		*81 %*		*60-140*	"	"	"	"	
Influent (S509179-02) Water	**Sampled: 09/09/05 11:05**	**Received: 09/09/05 11:45**							
Methyl tert-butyl ether	**370**	100	ug/l	50	5090155	09/13/05	09/13/05	EPA 8021B	
Surrogate: a,a,a-TFT (PID)		*85 %*		*60-140*	"	"	"	"	

Sequoia Analytical

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Soma Environmental Eng. 6620 Owens Drive, Suite A Pleasanton CA., 94588	Project:N/A Project Number:2463-Solano Wy, Concord Project Manager:Tony Perini	S509179 **Reported:** 09/27/05 13:36

Purgeable Aromatics by EPA Method 602

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (S509179-01) Water Sampled: 09/09/05 11:00 Received: 09/09/05 11:45									
Benzene	ND	0.50	ug/l	1	5090155	09/13/05	09/13/05	EPA 602	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-TFT (PID)		*81 %*	*60-140*		"	"	"	"	
Influent (S509179-02) Water Sampled: 09/09/05 11:05 Received: 09/09/05 11:45									
Benzene	**350**	25	ug/l	50	5090155	09/13/05	09/13/05	EPA 602	
Toluene	**800**	25	"	"	"	"	"	"	
Ethylbenzene	**310**	25	"	"	"	"	"	"	
Xylenes (total)	**2100**	25	"	"	"	"	"	"	
Surrogate: a,a,a-TFT (PID)		*85 %*	*60-140*		"	"	"	"	

Sequoia Analytical

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Soma Environmental Eng.	Project:N/A	S509179
6620 Owens Drive, Suite A	Project Number:2463-Solano Wy, Concord	**Reported:**
Pleasanton CA., 94588	Project Manager:Tony Perini	09/27/05 13:36

Purgeable Hydrocarbons by EPA 8015B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090155 - EPA 5030B (P/T) / EPA 8015B-VOA										
Blank (5090155-BLK1)				Prepared & Analyzed: 09/13/05						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 4-BFB (FID)	*7.13*		"	*10.0*		*71*	*60-140*			
Surrogate: a,a,a-TFT (PID)	*8.47*		"	*10.0*		*85*	*60-140*			
Laboratory Control Sample (5090155-BS1)				Prepared & Analyzed: 09/13/05						
Gasoline Range Organics (C4-C12)	80.8	50	ug/l				70-130			
Surrogate: 4-BFB (FID)	*7.63*		"	*10.0*		*76*	*60-140*			
Surrogate: a,a,a-TFT (PID)	*8.24*		"	*10.0*		*82*	*60-140*			
Matrix Spike (5090155-MS1)	**Source: S509179-01**			Prepared & Analyzed: 09/13/05						
Gasoline Range Organics (C4-C12)	78.4	50	ug/l		ND		60-140			
Surrogate: 4-BFB (FID)	*6.92*		"	*10.0*		*69*	*60-140*			
Surrogate: a,a,a-TFT (PID)	*7.96*		"	*10.0*		*80*	*60-140*			
Matrix Spike Dup (5090155-MSD1)	**Source: S509179-01**			Prepared & Analyzed: 09/13/05						
Gasoline Range Organics (C4-C12)	83.2	50	ug/l		ND		60-140	6	25	
Surrogate: 4-BFB (FID)	*6.92*		"	*10.0*		*69*	*60-140*			
Surrogate: a,a,a-TFT (PID)	*8.15*		"	*10.0*		*82*	*60-140*			

Sequoia Analytical

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Soma Environmental Eng. 6620 Owens Drive, Suite A Pleasanton CA., 94588	Project:N/A Project Number:2463-Solano Wy, Concord Project Manager:Tony Perini	S509179 **Reported:** 09/27/05 13:36

Extractable Hydrocarbons by EPA 8015B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090131 - EPA 3510C / EPA 8015B-SVOA										
Blank (5090131-BLK1)				Prepared & Analyzed: 09/12/05						
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: Octacosane	*25.7*		"	*20.0*		*128*	*50-150*			
Laboratory Control Sample (5090131-BS1)				Prepared & Analyzed: 09/12/05						
Diesel Range Organics (C10-C28)	436	50	ug/l	500		87	60-140			
Surrogate: Octacosane	*13.0*		"	*20.0*		*65*	*50-150*			
Laboratory Control Sample Dup (5090131-BSD1)				Prepared & Analyzed: 09/12/05						
Diesel Range Organics (C10-C28)	419	50	ug/l	500		84	60-140	4	50	
Surrogate: Octacosane	*12.9*		"	*20.0*		*64*	*50-150*			

Sequoia Analytical

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Soma Environmental Eng.	Project:N/A	S509179
6620 Owens Drive, Suite A	Project Number:2463-Solano Wy, Concord	**Reported:**
Pleasanton CA., 94588	Project Manager:Tony Perini	09/27/05 13:36

MTBE by EPA 8021B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090155 - EPA 5030B (P/T) / EPA 8021B										
Blank (5090155-BLK1)				Prepared & Analyzed: 09/13/05						
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: a,a,a-TFT (PID)	*8.47*		"	*10.0*		*85*	*60-140*			
Laboratory Control Sample (5090155-BS1)				Prepared & Analyzed: 09/13/05						
Methyl tert-butyl ether	7.99	2.0	ug/l	10.0		80	70-130			
Surrogate: a,a,a-TFT (PID)	*8.24*		"	*10.0*		*82*	*60-140*			
Matrix Spike (5090155-MS1)	**Source: S509179-01**			Prepared & Analyzed: 09/13/05						
Methyl tert-butyl ether	8.39	2.0	ug/l	10.0	ND	84	60-140			
Surrogate: a,a,a-TFT (PID)	*7.96*		"	*10.0*		*80*	*60-140*			
Matrix Spike Dup (5090155-MSD1)	**Source: S509179-01**			Prepared & Analyzed: 09/13/05						
Methyl tert-butyl ether	8.77	2.0	ug/l	10.0	ND	88	60-140	4	25	
Surrogate: a,a,a-TFT (PID)	*8.15*		"	*10.0*		*82*	*60-140*			

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Soma Environmental Eng.	Project:N/A	S509179
6620 Owens Drive, Suite A	Project Number:2463-Solano Wy, Concord	**Reported:**
Pleasanton CA., 94588	Project Manager:Tony Perini	09/27/05 13:36

Purgeable Aromatics by EPA Method 602 - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5090155 - EPA 5030B (P/T) / EPA 602										
Blank (5090155-BLK1)				Prepared & Analyzed: 09/13/05						
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: a,a,a-TFT (PID)	*8.47*		"	*10.0*		*85*	*60-140*			
Laboratory Control Sample (5090155-BS1)				Prepared & Analyzed: 09/13/05						
Benzene	8.04	0.50	ug/l	10.0		80	70-130			
Toluene	7.83	0.50	"	10.0		78	70-130			
Ethylbenzene	7.91	0.50	"	10.0		79	70-130			
Xylenes (total)	23.3	0.50	"	30.0		78	70-130			
Surrogate: a,a,a-TFT (PID)	*8.24*		"	*10.0*		*82*	*60-140*			
Matrix Spike (5090155-MS1)	**Source: S509179-01**			Prepared & Analyzed: 09/13/05						
Benzene	8.10	0.50	ug/l	10.0	ND	81	60-140			
Toluene	7.84	0.50	"	10.0	ND	78	60-140			
Ethylbenzene	7.91	0.50	"	10.0	ND	79	60-140			
Xylenes (total)	23.3	0.50	"	30.0	ND	78	60-140			
Surrogate: a,a,a-TFT (PID)	*7.96*		"	*10.0*		*80*	*60-140*			
Matrix Spike Dup (5090155-MSD1)	**Source: S509179-01**			Prepared & Analyzed: 09/13/05						
Benzene	8.19	0.50	ug/l	10.0	ND	82	60-140	1	25	
Toluene	7.97	0.50	"	10.0	ND	80	60-140	2	25	
Ethylbenzene	8.05	0.50	"	10.0	ND	80	60-140	2	25	
Xylenes (total)	23.7	0.50	"	30.0	ND	79	60-140	2	25	
Surrogate: a,a,a-TFT (PID)	*8.15*		"	*10.0*		*82*	*60-140*			

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Soma Environmental Eng.	Project:N/A	S509179
6620 Owens Drive, Suite A	Project Number:2463-Solano Wy, Concord	**Reported:**
Pleasanton CA., 94588	Project Manager:Tony Perini	09/27/05 13:36

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference